

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (80)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1520  
Met Ala Ser Trp Pro Phe Leu Ser Pro Met Gly Pro Ile Ala Leu Ala  
1 5 10 15  
Leu Leu Thr Gln Ala Leu Ser Ser Xaa Val Gly Leu Cys Leu Ala Leu  
20 25 30  
Thr Cys Ser Arg Arg Pro Ser Pro Asp Ser Val Cys Ala Ser Cys Arg  
35 40 45  
Phe Pro Leu Val Pro Leu Cys Cys Gln Pro Ser Leu Pro Ala Leu Leu  
50 55 60  
Arg Pro Val Ser His Cys Arg Tyr Pro Gly Thr Ser Trp Val Ser Xaa  
65 70 75 80

<210> 1521  
<211> 56  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1521  
Val Asp Leu Val Ser Val Asn Val Gly Ser Glu Phe Leu Val Thr Leu  
1 5 10 15  
Leu Phe Phe Leu Gly Pro Val Thr Gly His Leu Asp Arg Leu Asn Ala  
20 25 30  
Ile Leu Glu Leu Asp Ser Tyr Val Phe Ile Cys Thr Pro Xaa Ser His  
35 40 45  
Leu Pro Val Ala Ser Ser Asp Ala  
50 55

<210> 1522

<211> 151  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (92)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (95)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (117)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (122)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (128)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (132)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (139)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1522  
Met Pro Leu Phe Phe Thr Arg Phe His Pro Ala Leu Gly Pro Leu Ala  
1 5 10 15  
Leu Ser Leu Leu Ala Gly Phe Ala Ala Gly Ser Leu Gln Ala Ile Gly  
20 25 30  
Arg Thr Glu Glu Lys Gly Val Arg Val Leu Thr Ser Gln Ala Pro Pro  
35 40 45  
Tyr Arg Val Met Gly Xaa Leu His Ser Ser Thr Lys Gly Phe Ser Phe  
50 55 60



Cys	Gln	Gly	Val	Cys	Pro	Arg	Ala	Leu	Ser	Leu	Trp	Val	Thr	Thr	Pro
65					70					75					80
Leu	Phe	Leu	Pro	Pro	Ser	Pro	Arg	Leu	Ala	Met	Xaa	Pro	Thr	Xaa	Ser
				85					90					95	
Cys	Pro	Gly	Tyr	Cys	His	His	Val	Ser	Leu	Tyr	Pro	Val	Tyr	Ala	Leu
			100					105					110		
Gln	Leu	Val	Leu	Xaa	Gln	Ile	Leu	Leu	Xaa	Trp	Pro	Asn	Leu	Met	Xaa
		115					120					125			
Tyr	Trp	Tyr	Xaa	His	Leu	Met	Thr	Gly	Pro	Xaa	Ser	Asp	Gln	Lys	Arg
	130					135					140				
Lys	Ser	Val	Val	Thr	Leu	Val									
145					150										

<210> 1523  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids

Arg	Val	Asp	Asn	Phe	Leu	Cys	Gln	Phe	Ile	Arg	Ile	Tyr	Leu	Ile	Leu
1				5					10					15	
Leu	Ser	Ser	His	Ile	Ile	Phe	His	Asn	Thr	Asn	Val	Ser	Cys	Tyr	Pro
			20					25					30		
Met	Glu	Ser	His	Leu	Leu	Phe	Ser	Tyr	Asn	Asn	Thr	Ala	Val	Ser	Ile
		35					40					45			
Leu	Val	His	Arg	Phe	Phe	Asn	Ile	Xaa	Ile	Ser	Lys	Phe	Leu	Lys	Val
	50					55					60				
Ile	Ser	Trp	Asp	Arg	Asn	Arg	Asn	Gly	Ile	Gly	Ile	Ser	Lys	Ser	
65					70					75					

<210> 1524  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

Met	Pro	Leu	Phe	Phe	Thr	Arg	Phe	His	Pro	Ala	Leu	Gly	Pro	Leu	Ala
1				5					10					15	

Leu Ser Leu Leu Ala Gly Phe Ala Ala Gly Ser Leu Gln Ala Ile Gly  
                   20                                  25                                  30  
 Arg Thr Glu Glu Lys Gly Val Arg Val Leu Thr Ser Gln Ala Pro Pro  
                   35                                  40                                  45  
 Tyr Arg Val Met Gly Gln Leu His Ser Ser Thr Lys Gly Phe Ser Phe  
                   50                                  55                                  60  
 Cys Gln Gly Val Cys Pro Arg Ala Leu Ser Leu Trp Val Thr Thr Pro  
                   65                                  70                                  75                                  80  
 Leu Phe Leu Pro Pro Ser Pro Arg Leu Ala Met Val Pro Thr Val Ser  
                                   85                                  90                                  95  
 Cys Pro Gly Tyr Cys Pro Ser Cys Phe Ser Val Ser Cys Leu Cys Phe  
                   100                                  105                                  110  
 Thr Thr Gly Pro Ser Ser Asn Ser Ala  
                   115                                  120

<210> 1525  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1525  
 Met Gly Pro Val Ser Glu Leu Ser Ile Phe Ile Leu Leu Phe Val Phe  
           1                                  5                                  10                                  15  
 Cys Phe Xaa Phe Ser Leu Met Pro Asp Ile Arg Arg Thr Leu His Phe  
                   20                                  25                                  30  
 Trp Leu His Ser Leu Leu Tyr Pro His Glu Thr Asp Gln Cys Leu Gln  
                   35                                  40                                  45  
 Ser Ser Ala Ile Pro Phe Gln Val Phe Tyr Val Gln Gln Lys Lys Arg  
                   50                                  55                                  60  
 Ala Ser Leu Ser Ser Ser Ser His Ile Ile Lys Gly Ile Ala Pro Leu  
                   65                                  70                                  75                                  80  
 Leu Asn Gln Ser Val Asn His Ser Gly Pro Ile  
                                   85                                  90

<210> 1526  
 <211> 66  
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1526

Ser	Thr	Leu	Xaa	Val	Thr	Phe	Ile	Cys	Ser	Ser	Arg	Xaa	Leu	Leu	Arg
1				5					10					15	

Glu	Arg	Gly	Ala	Val	Leu	Lys	Thr	Asn	Pro	Ile	Pro	Ile	Leu	Leu	Lys
			20					25					30		

Lys	Pro	Leu	Leu	Cys	Pro	Ser	Phe	Ile	His	Asn	Leu	Val	Pro	His	Pro
		35					40					45			

His	Leu	Pro	Gln	Leu	Leu	Leu	Phe	Ser	Asn	Phe	Leu	Cys	Arg	Cys	Pro
	50					55					60				

Tyr	His
65	

<210> 1527

<211> 91

<212> PRT

<213> Homo sapiens

<400> 1527

Met	Gly	Pro	Val	Ser	Glu	Leu	Ser	Ile	Phe	Ile	Leu	Leu	Phe	Val	Phe
1				5					10					15	

Cys	Phe	Val	Phe	Ser	Leu	Met	Pro	Asp	Ile	Arg	Arg	Thr	Leu	His	Phe
			20					25					30		

Trp	Leu	His	Ser	Leu	Leu	Tyr	Pro	His	Glu	Thr	Asp	Gln	Cys	Leu	Gln
		35					40					45			

Ser	Ser	Ala	Ile	Pro	Phe	Gln	Val	Phe	Tyr	Val	Gln	Gln	Lys	Lys	Arg
	50					55					60				

Ala	Ser	Leu	Ser	Ser	Ser	Ser	His	Ile	Ile	Lys	Gly	Ile	Ala	Pro	Leu
65					70					75					80

Leu	Asn	Gln	Ser	Val	Asn	His	Ser	Gly	Pro	Ile
				85					90	

<210> 1528

<211> 336  
<212> PRT  
<213> Homo sapiens

<400> 1528

Met	Ala	Leu	Ala	Arg	Pro	Val	Arg	Leu	Phe	Ser	Leu	Val	Thr	Arg	Leu	
1				5					10					15		
Leu	Leu	Ala	Pro	Arg	Arg	Gly	Leu	Thr	Val	Arg	Ser	Pro	Asp	Glu	Pro	
			20					25					30			
Leu	Pro	Val	Val	Arg	Ile	Pro	Val	Ala	Leu	Gln	Arg	Gln	Leu	Glu	Gln	
		35					40					45				
Arg	Gln	Ser	Arg	Arg	Arg	Asn	Leu	Pro	Arg	Pro	Val	Leu	Val	Arg	Pro	
	50					55					60					
Gly	Pro	Leu	Leu	Val	Ser	Ala	Arg	Arg	Pro	Glu	Leu	Asn	Gln	Pro	Ala	
65					70					75					80	
Arg	Leu	Thr	Leu	Gly	Arg	Trp	Glu	Arg	Ala	Pro	Leu	Ala	Ser	Gln	Gly	
				85					90					95		
Trp	Lys	Ser	Arg	Arg	Ala	Arg	Arg	Asp	His	Phe	Ser	Ile	Glu	Arg	Ala	
			100					105					110			
Gln	Gln	Glu	Ala	Pro	Ala	Val	Arg	Lys	Leu	Ser	Ser	Lys	Gly	Ser	Phe	
		115					120					125				
Ala	Asp	Leu	Gly	Leu	Glu	Pro	Arg	Val	Leu	His	Ala	Leu	Gln	Glu	Ala	
	130					135					140					
Ala	Pro	Glu	Val	Val	Gln	Pro	Thr	Thr	Val	Gln	Ser	Ser	Thr	Ile	Pro	
145					150					155					160	
Ser	Leu	Leu	Arg	Gly	Arg	His	Val	Val	Cys	Ala	Ala	Glu	Thr	Gly	Ser	
				165					170					175		
Gly	Lys	Thr	Leu	Ser	Tyr	Leu	Leu	Pro	Leu	Leu	Gln	Arg	Leu	Leu	Gly	
			180					185					190			
Gln	Pro	Ser	Leu	Asp	Ser	Leu	Pro	Ile	Pro	Ala	Pro	Arg	Gly	Leu	Val	
		195					200					205				
Leu	Val	Pro	Ser	Arg	Glu	Leu	Ala	Gln	Gln	Val	Arg	Ala	Val	Ala	Gln	
	210					215					220					
Pro	Leu	Gly	Arg	Ser	Leu	Gly	Leu	Leu	Val	Arg	Asp	Leu	Glu	Gly	Gly	
225					230					235				240		
His	Gly	Met	Arg	Arg	Ile	Arg	Leu	Gln	Leu	Ser	Arg	Gln	Pro	Ser	Ala	
				245					250					255		
Asp	Val	Leu	Val	Ala	Thr	Pro	Gly	Ala	Leu	Trp	Lys	Ala	Leu	Lys	Ser	
			260					265					270			
Arg	Leu	Ile	Ser	Leu	Glu	Gln	Leu	Ser	Phe	Leu	Val	Leu	Asp	Glu	Ala	

275	280	285
Asp Thr Leu Leu Asp Glu Ser Phe Leu Glu Leu Val Asp Tyr Ile Leu		
290	295	300
Glu Lys Ser His Ile Ala Glu Gly Pro Ala Asp Leu Glu Asp Pro Phe		
305	310	315
Asn Pro Lys Ala Gln Leu Val Leu Val Gly Ala Thr Phe Pro Glu Val		
325	330	335

<210> 1529  
 <211> 336  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (224)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1529  
 Met Ala Leu Ala Arg Pro Val Arg Leu Phe Ser Leu Val Thr Arg Leu  
 1 5 10 15  
 Leu Leu Ala Pro Arg Arg Gly Leu Thr Val Arg Ser Pro Asp Glu Pro  
 20 25 30  
 Leu Pro Val Val Arg Ile Pro Val Ala Leu Gln Arg Gln Leu Glu Gln  
 35 40 45  
 Arg Gln Ser Arg Arg Arg Asn Leu Pro Arg Pro Val Leu Val Arg Pro  
 50 55 60  
 Gly Pro Leu Leu Val Ser Ala Arg Arg Pro Glu Leu Asn Gln Pro Ala  
 65 70 75 80  
 Arg Leu Thr Leu Gly Arg Trp Glu Arg Ala Pro Leu Ala Ser Gln Gly  
 85 90 95  
 Trp Lys Ser Arg Arg Ala Arg Arg Asp His Phe Ser Ile Glu Arg Ala  
 100 105 110  
 Gln Gln Glu Ala Pro Ala Val Arg Lys Leu Ser Ser Lys Gly Ser Phe  
 115 120 125  
 Ala Asp Leu Gly Leu Glu Pro Arg Val Leu His Ala Leu Gln Glu Ala  
 130 135 140  
 Ala Pro Glu Val Val Gln Pro Thr Thr Val Gln Ser Ser Thr Ile Pro  
 145 150 155 160

Ser Leu Leu Arg Gly Arg His Val Val Cys Ala Ala Glu Thr Gly Ser  
 165 170 175  
 Gly Lys Thr Leu Ser Tyr Leu Leu Pro Leu Leu Gln Arg Leu Leu Gly  
 180 185 190  
 Gln Pro Ser Leu Asp Ser Leu Pro Ile Pro Ala Pro Arg Gly Leu Val  
 195 200 205  
 Leu Val Pro Ser Arg Glu Leu Ala Gln Gln Val Arg Ala Val Ala Xaa  
 210 215 220  
 Pro Leu Gly Arg Ser Leu Gly Leu Leu Val Arg Asp Leu Glu Gly Gly  
 225 230 235 240  
 His Gly Met Arg Arg Ile Arg Leu Gln Leu Ser Arg Gln Pro Ser Ala  
 245 250 255  
 Asp Val Leu Val Ala Thr Pro Gly Ala Leu Trp Lys Ala Leu Lys Ser  
 260 265 270  
 Arg Leu Ile Ser Leu Glu Gln Leu Ser Phe Leu Val Leu Asp Glu Ala  
 275 280 285  
 Asp Thr Leu Leu Asp Glu Ser Phe Leu Glu Leu Val Asp Tyr Ile Leu  
 290 295 300  
 Glu Lys Ser His Ile Ala Glu Gly Pro Ala Asp Leu Glu Asp Pro Phe  
 305 310 315 320  
 Asn Pro Lys Ala Gln Leu Val Leu Val Gly Ala Thr Phe Pro Glu Val  
 325 330 335

<210> 1530

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1530

Met Ser Phe Arg Ser Glu Leu Ala Met Trp Phe Gln Ala Ala Leu Val  
 1 5 10 15  
 Ser Ser Leu Val Leu Pro Thr Pro Pro Gly Ser Gly Gly Thr Ser Arg  
 20 25 30  
 Arg Lys Lys Trp Ile Lys Ser Trp Arg Asp Phe Lys Gln Tyr Leu Thr  
 35 40 45  
 His Ser Ser Arg His Asp Ser His Gln Leu Arg Ser Ser Asn Ala Phe  
 50 55 60  
 Leu Phe Asp Ala Gln Glu Asp Pro Ser Ala Leu Asp Ile Ala Ser Pro

65		70		75		80						
Gly	Gly	Met	Ala	Ala	Glu	Asp	Glu	Ile	Gln	Arg	Gln	Arg
			85						90			

<210> 1531  
 <211> 219  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1531

Ala	Ala	Ala	Thr	Ala	Ala	Ser	Leu	Ser	Pro	Arg	Gly	Cys	Arg	Leu	Arg
1				5					10					15	
Thr	Pro	Ser	Ser	Asp	Val	Ser	Pro	Ser	Arg	Ala	Pro	Pro	Pro	Ser	Ala
			20					25						30	
Ala	Pro	Leu	Pro	Thr	Gly	Arg	Ala	Xaa	Met	Ser	Pro	Ser	Gly	Arg	Leu
		35					40					45			
Cys	Leu	Leu	Thr	Ile	Val	Gly	Leu	Ile	Leu	Pro	Thr	Arg	Gly	Gln	Thr
	50					55					60				
Leu	Lys	Asp	Thr	Thr	Ser	Ser	Ser	Ser	Ala	Asp	Ser	Thr	Ile	Met	Asp
65					70					75					80
Ile	Gln	Val	Pro	Thr	Arg	Ala	Pro	Asp	Ala	Val	Tyr	Thr	Glu	Leu	Gln
				85					90					95	
Pro	Thr	Ser	Pro	Thr	Pro	Thr	Trp	Pro	Ala	Asp	Glu	Thr	Pro	Gln	Pro
			100					105					110		
Gln	Thr	Gln	Thr	Gln	Gln	Leu	Glu	Gly	Thr	Asp	Gly	Pro	Leu	Val	Thr
		115					120					125			
Asp	Pro	Glu	Thr	His	Lys	Ser	Thr	Lys	Ala	Ala	His	Pro	Thr	Asp	Asp
	130					135					140				
Thr	Thr	Thr	Leu	Ser	Glu	Arg	Pro	Ser	Pro	Ser	Thr	Asp	Val	Gln	Thr
145					150					155					160
Asp	Pro	Gln	Thr	Leu	Lys	Pro	Ser	Gly	Phe	His	Glu	Asp	Asp	Pro	Phe
				165					170					175	
Phe	Tyr	Asp	Glu	His	Thr	Leu	Arg	Lys	Arg	Gly	Leu	Leu	Val	Ala	Ala
			180					185					190		
Val	Leu	Phe	Ile	Thr	Gly	Ile	Ile	Ile	Leu	Thr	Ser	Gly	Lys	Cys	Arg
	195						200					205			

Gln Leu Ser Arg Leu Cys Arg Asn His Cys Arg  
210 215

<210> 1532  
<211> 178  
<212> PRT  
<213> Homo sapiens

<400> 1532  
Met Ser Pro Ser Gly Arg Leu Cys Leu Leu Thr Ile Val Gly Leu Ile  
1 5 10 15  
Leu Pro Thr Arg Gly Gln Thr Leu Lys Asp Thr Thr Ser Ser Ser Ser  
20 25 30  
Ala Asp Ser Thr Ile Met Asp Ile Gln Val Pro Thr Arg Ala Pro Asp  
35 40 45  
Ala Val Tyr Thr Glu Leu Gln Pro Thr Ser Pro Thr Pro Thr Trp Pro  
50 55 60  
Ala Asp Glu Thr Pro Gln Pro Gln Thr Gln Thr Gln Gln Leu Glu Gly  
65 70 75 80  
Thr Asp Gly Pro Leu Val Thr Asp Pro Glu Thr His Lys Ser Thr Lys  
85 90 95  
Ala Ala His Pro Thr Asp Asp Thr Thr Thr Leu Ser Glu Arg Pro Ser  
100 105 110  
Pro Ser Thr Asp Val Gln Thr Asp Pro Gln Thr Leu Lys Pro Ser Gly  
115 120 125  
Phe His Glu Asp Asp Pro Phe Phe Tyr Asp Glu His Thr Leu Arg Lys  
130 135 140  
Arg Gly Leu Leu Val Ala Ala Val Leu Phe Ile Thr Gly Ile Ile Ile  
145 150 155 160  
Leu Thr Ser Gly Lys Cys Arg Gln Leu Ser Arg Leu Cys Arg Asn His  
165 170 175

Cys Arg

<210> 1533  
<211> 152  
<212> PRT  
<213> Homo sapiens

<400> 1533  
Met Glu Leu Pro Ala Val Asn Leu Lys Val Ile Leu Leu Gly His Trp  
1 5 10 15



Leu Leu Thr Thr Trp Gly Cys Ile Val Phe Ser Gly Ser Tyr Ala Trp  
                   20                  25                  30  
 Ala Asn Phe Thr Ile Leu Ala Leu Gly Val Trp Ala Val Ala Gln Arg  
                   35                  40                  45  
 Asp Ser Ile Asp Ala Ile Ser Met Phe Leu Gly Gly Leu Leu Ala Thr  
           50                  55                  60  
 Ile Phe Leu Asp Ile Val His Ile Ser Ile Phe Tyr Pro Arg Val Ser  
   65                  70                  75                  80  
 Leu Thr Asp Thr Gly Arg Phe Gly Val Gly Met Ala Ile Leu Ser Leu  
                   85                  90                  95  
 Leu Leu Lys Pro Leu Ser Cys Cys Phe Val Tyr His Met Tyr Arg Glu  
                   100                  105                  110  
 Arg Gly Gly Phe Leu Gly Ser Ser Gln Asp Arg Ser Ala Tyr Gln Thr  
           115                  120                  125  
 Ile Asp Ser Ala Glu Ala Pro Ala Asp Pro Phe Ala Val Pro Glu Gly  
       130                  135                  140  
 Arg Ser Gln Asp Ala Arg Gly Tyr  
 145                  150

<210> 1534  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<400> 1534

Met Glu Leu Pro Ala Val Asn Leu Lys Val Ile Leu Leu Gly His Trp  
   1                  5                  10                  15  
 Leu Leu Thr Thr Trp Gly Cys Ile Val Phe Ser Gly Ser Tyr Ala Trp  
                   20                  25                  30  
 Ala Asn Phe Thr Ile Leu Ala Leu Gly Val Trp Ala Val Ala Gln Arg  
                   35                  40                  45  
 Asp Ser Ile Asp Ala Ile Ser Met Phe Leu Gly Gly Leu Leu Ala Thr  
           50                  55                  60  
 Ile Phe Leu Asp Ile Val His Ile Ser Ile Phe Tyr Pro Arg Val Ser  
   65                  70                  75                  80  
 Leu Thr Asp Thr Gly Arg Phe Gly Val Gly Met Ala Ile Leu Ser Leu  
                   85                  90                  95  
 Leu Leu Lys Pro Leu Ser Cys Cys Phe Val Tyr His Met Tyr Arg Glu  
                   100                  105                  110

Arg Gly Gly Glu Leu Leu Val His Thr Gly Phe Leu Gly Ser Ser Gln  
115 120 125

Asp Arg Ser Ala Tyr Gln Thr Ile Asp Ser Ala Glu Ala Pro Ala Asp  
130 135 140

Pro Phe Ala Val Pro Glu Gly Arg Ser Gln Asp Ala Arg Gly Tyr  
145 150 155

<210> 1535

<211> 91

<212> PRT

<213> Homo sapiens

<400> 1535

Met Pro Leu Ala Pro Leu Leu Leu Val Leu Ser Pro Phe Ser Phe Asp  
1 5 10 15

Gln Val Val Gln Ala Arg Leu Glu Val Pro Val Phe Lys Gln Arg Asp  
20 25 30

Leu Cys Asn Tyr Val Leu Ile Leu Val Gly Ala Gln Leu Lys Pro Leu  
35 40 45

Ala Met Leu Val Lys Asn Ile Arg Asp Tyr Arg Leu Glu Pro Pro Cys  
50 55 60

Pro Ala Cys Ile Asp Thr Phe Tyr Pro Thr Phe Lys Thr Gly Met Phe  
65 70 75 80

Ser Leu Cys Phe Lys Met Pro Leu Lys Tyr Phe  
85 90

<210> 1536

<211> 64

<212> PRT

<213> Homo sapiens

<400> 1536

Ser Ala Thr His Gln Gln Ala Leu Val Cys Asp Val Leu Leu Pro Val  
1 5 10 15

Ser Met Cys Ser His Glu Asn Leu Tyr Ile Leu Cys Ser Gly Val Ser  
20 25 30

Tyr Phe Ile Phe Phe Phe Ser Cys Val Thr Ser Val Thr Ser Gly Leu  
35 40 45

Gly Ile Pro Ser Tyr Pro Glu Val Arg Lys Tyr Ser Ser Ile Phe Phe  
50 55 60

<210> 1537  
<211> 91  
<212> PRT  
<213> Homo sapiens

<400> 1537  
Met Pro Leu Ala Pro Leu Leu Leu Val Leu Ser Pro Phe Ser Phe Asp  
1 5 10 15  
Gln Val Val Gln Ala Arg Leu Glu Val Pro Val Phe Lys Gln Arg Asp  
20 25 30  
Leu Cys Asn Tyr Val Leu Ile Leu Val Gly Ala Gln Leu Lys Pro Leu  
35 40 45  
Ala Met Leu Val Lys Asn Ile Arg Asp Tyr Arg Leu Glu Pro Pro Cys  
50 55 60  
Pro Ala Cys Ile Asp Thr Phe Tyr Pro Thr Phe Lys Thr Gly Met Phe  
65 70 75 80  
Ser Leu Cys Phe Lys Met Pro Leu Lys Tyr Phe  
85 90

<210> 1538  
<211> 112  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (93)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (98)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (104)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (106)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1538  
Met Asp Leu Trp Thr Thr Ser Phe Phe Phe Phe Ala Val Met His Asn  
1 5 10 15

Ala	Ala	Met	Asn	Ile	Asn	Val	Gln	Val	Ser	Glu	Ser	Gly	Phe	Ser	Phe			
			20					25					30					
Trp	Gly	Arg	Tyr	Leu	Gly	Val	Glu	Leu	Leu	Gly	Cys	Val	Val	Asn	Leu			
		35					40					45						
Tyr	Leu	Phe	Lys	Lys	Trp	Pro	Asn	Cys	Phe	Leu	Asn	Gly	Cys	Ile	Ile			
	50					55					60							
Leu	His	Pro	His	Gln	Gln	Tyr	Ile	Arg	Val	Ser	Cys	Phe	Ser	Thr	Ser			
	65				70					75					80			
Tyr	Leu	Leu	Met	Ala	Phe	Lys	Asn	Tyr	Arg	His	Ser	Xaa	Lys	Cys	Glu			
				85					90					95				
Val	Xaa	Pro	His	Cys	Ser	Leu	Xaa	Cys	Xaa	Phe	Leu	Ile	Thr	Met	Met			
		100					105						110					

<210> 1539  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

<400> 1539																		
Met	Asp	Leu	Trp	Thr	Thr	Ser	Phe	Phe	Phe	Phe	Ala	Val	Met	His	Asn			
	1			5					10					15				
Ala	Ala	Met	Asn	Ile	Asn	Val	Gln	Val	Ser	Glu	Ser	Gly	Phe	Ser	Phe			
			20					25					30					
Trp	Gly	Arg	Tyr	Leu	Gly	Val	Glu	Leu	Leu	Gly	Cys	Val	Val	Asn	Leu			
		35					40					45						
Tyr	Leu	Phe	Lys	Lys	Trp	Pro	Asn	Cys	Phe	Leu	Asn	Gly	Cys	Ile	Ile			
	50					55					60							
Leu	His	Pro	His	Gln	Gln	Tyr	Ile	Arg	Val	Ser	Cys	Phe	Ser	Thr	Ser			
	65				70					75					80			
Tyr	Leu	Leu	Met	Ala	Phe	Lys	Asn	Tyr	Arg	His	Ser	Cys	Lys	Cys	Glu			
				85					90					95				
Val	Val	Ser	His	Cys	Ser	Phe	Ser	Leu	His	Phe	Pro	Asn	Asn	Asn	Asp			
			100					105					110					

Val

<210> 1540

<211> 113  
 <212> PRT  
 <213> Homo sapiens

<400> 1540  
 Met Asp Leu Trp Thr Thr Ser Phe Phe Phe Phe Ala Val Met His Asn  
   1                  5                  10                  15  
 Ala Ala Met Asn Ile Asn Val Gln Val Ser Glu Ser Gly Phe Ser Phe  
                   20                  25                  30  
 Trp Gly Arg Tyr Leu Gly Val Glu Leu Leu Gly Cys Val Val Asn Leu  
           35                  40                  45  
 Tyr Leu Phe Lys Lys Trp Pro Asn Cys Phe Leu Asn Gly Cys Ile Ile  
       50                  55                  60  
 Leu His Pro His Gln Gln Tyr Ile Arg Val Ser Cys Phe Ser Thr Ser  
   65                  70                  75                  80  
 Tyr Leu Leu Met Ala Phe Lys Asn Tyr Arg His Ser Cys Lys Cys Glu  
                   85                  90                  95  
 Val Val Ser His Cys Ser Phe Ser Leu His Phe Pro Asn Asn Asn Asp  
           100                  105                  110  
 Val

<210> 1541  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<400> 1541  
 Met Arg Met Ser Leu Ala Asp Ser Leu Ala Cys Ser Val Cys Val Ala  
   1                  5                  10                  15  
 Leu Thr Ala Ala Ala Arg Leu Leu Arg Ser Arg Pro Ser Ser Cys Ser  
           20                  25                  30  
 Ser Phe Ser Trp Ile Ser Gly Thr Ser Ser Ser Pro Ser Phe Leu Gly  
       35                  40                  45  
 Ser Phe Thr Ser Leu Leu Gly Ser Ser Leu Ser Ser Leu Gly Asp Ser  
       50                  55                  60  
 Leu Leu Gly Arg Gly Thr Leu Gly Asn Phe Trp Glu Val Leu Ile Ser  
   65                  70                  75                  80  
 Thr Ser Thr Ser Ser Trp Ala Asp Phe Ser Ser Leu Val Ser Thr Ser  
           85                  90                  95  
 Pro Lys Val Arg Val Pro Leu Arg Pro Ile Phe Thr Cys Phe Leu  
           100                  105                  110

<210> 1542  
<211> 148  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (41)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (43)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (99)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (121)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1542  
Gly Phe Xaa Ala Ala Ala Ala Ala Ala Val Val Ala Ala Ala Ala  
1 5 10 15  
Ala Ala Ser Val Glu Gly Arg Gln Pro Pro Gly Leu Gly Ala Val Gly  
20 25 30  
Pro Ala Gly Arg Xaa Ala Gly Ser Xaa Gly Xaa Arg Met Pro Ala Gly  
35 40 45  
Arg Val Ala Gly Ala Val Thr Gly Leu Gly Val Ser Trp Leu Arg Gly  
50 55 60  
Lys Asn Ser Gly Val Pro Gly Ala Ala Leu Pro Pro Ala Ala Pro Ser  
65 70 75 80  
Val Ala Ser Leu Val Ala His Ser Gly Pro Ala Val Gly Pro Pro Leu  
85 90 95

Ser Pro Xaa Ser Val Pro Gln Gly Gly Tyr Ser Lys Ser Gly Leu Pro  
 100 105 110  
 Leu Gln Asp Ala Gly Ser Pro Trp Xaa His Cys Arg Gly Thr Asp Cys  
 115 120 125  
 Gly Ser Ser Met Leu Asn Gly Val Glu Ala Gly Leu Ala Ala Ala Ala  
 130 135 140  
 Ser Cys Cys His  
 145

<210> 1543  
 <211> 191  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (180)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (181)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (190)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1543  
 Met Ser Ser Asn Thr Met Leu Gln Lys Thr Leu Leu Ile Leu Ile Ser  
 1 5 10 15  
 Phe Ser Val Val Thr Trp Met Ile Phe Ile Ile Ser Gln Asn Phe Thr  
 20 25 30  
 Lys Leu Trp Ser Ala Leu Asn Leu Ser Ile Ser Val His Tyr Trp Asn  
 35 40 45  
 Asn Ser Ala Lys Ser Leu Phe Pro Lys Thr Ser Leu Ile Pro Leu Lys  
 50 55 60  
 Pro Leu Thr Glu Thr Glu Leu Arg Ile Lys Glu Ile Ile Glu Lys Leu  
 65 70 75 80  
 Asp Gln Gln Ile Pro Pro Arg Pro Phe Thr His Val Asn Thr Thr Thr  
 85 90 95  
 Ser Ala Thr His Ser Thr Ala Thr Ile Leu Asn Pro Arg Asp Thr Tyr  
 100 105 110  
 Cys Arg Gly Asp Gln Leu Asp Ile Leu Leu Glu Val Arg Asp His Leu

115		120		125
Gly Gln Arg Lys Gln Tyr Gly Gly Asp Phe Leu Arg Ala Arg Met Ser				
130		135		140
Phe Pro Ala Leu Thr Ala Gly Ala Ser Gly Lys Val Met Asp Phe Thr				
145		150		155
				160
Met Ala Pro Thr Trp Gln Leu His Ser Gly Leu Gly Gly Pro Gly Leu				
		165		170
				175
Pro Gly Ser Xaa Xaa Tyr Ser Pro Gln Val Glu Gly Ala Xaa Gly				
		180		185
				190

<210> 1544  
 <211> 165  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (28)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1544  
 Asn Xaa Phe Ala Xaa Trp Xaa Gln Lys Asp Thr Leu Arg Ile Gln Trp  
 1 5 10 15  
 Lys Lys His Ser Tyr Pro Phe Val Thr Phe Gln Xaa Tyr Ser Leu Ile  
 20 25 30  
 Xaa His Asp Tyr Ile Pro Arg Glu Ile Asp Arg Leu Ser Gly Asp Lys  
 35 40 45  
 Asn Thr Ala Ile Val Ile Thr Phe Gly Gln His Phe Arg Pro Phe Pro



50		55		60
Ile Asp Ile Phe Ile Arg Arg Ala Ile Gly Val Gln Lys Ala Ile Glu				
65		70	75	80
Arg Leu Phe Leu Arg Ser Pro Ala Thr Lys Val Ile Ile Lys Thr Glu				
	85	90	95	
Asn Ile Arg Glu Met His Ile Glu Thr Glu Arg Phe Gly Asp Phe His				
	100	105	110	
Gly Tyr Ile His Tyr Leu Ile Met Lys Asp Ile Phe Lys Asp Leu Asn				
	115	120	125	
Val Gly Ile Ile Asp Ala Trp Asp Met Thr Ile Ala Tyr Gly Thr Asp				
	130	135	140	
Thr Ile His Pro Pro Asp His Val Ile Gly Asn Gln Ile Asn Met Phe				
145	150	155	160	
Leu Asn Tyr Ile Cys				
	165			

<210> 1545  
 <211> 303  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (176)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (177)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (179)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (192)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (294)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE

<222> (297)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (302)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1545

Met	Ser	Ser	Asn	Thr	Met	Leu	Gln	Lys	Thr	Leu	Leu	Ile	Leu	Ile	Ser
1				5				10						15	

Phe	Ser	Val	Val	Thr	Trp	Met	Ile	Phe	Ile	Ile	Ser	Gln	Asn	Phe	Thr
			20					25					30		

Lys	Leu	Trp	Ser	Ala	Leu	Asn	Leu	Ser	Ile	Ser	Val	His	Tyr	Trp	Asn
		35				40						45			

Asn	Ser	Ala	Lys	Ser	Leu	Phe	Pro	Lys	Thr	Ser	Leu	Ile	Pro	Leu	Lys
	50					55					60				

Pro	Leu	Thr	Glu	Thr	Glu	Leu	Arg	Ile	Lys	Glu	Ile	Ile	Glu	Lys	Leu
65					70					75					80

Asp	Gln	Gln	Ile	Pro	Pro	Arg	Pro	Phe	Thr	His	Val	Asn	Thr	Thr	Thr
				85					90					95	

Ser	Ala	Thr	His	Ser	Thr	Ala	Thr	Ile	Leu	Asn	Pro	Arg	Asp	Thr	Tyr
		100						105					110		

Cys	Arg	Gly	Asp	Gln	Leu	Asp	Ile	Leu	Leu	Glu	Val	Arg	Asp	His	Leu
		115					120					125			

Gly	Gln	Arg	Lys	Gln	Tyr	Gly	Gly	Asp	Phe	Leu	Arg	Ala	Arg	Met	Ser
	130					135					140				

Ser	Pro	Ala	Leu	Thr	Ala	Gly	Ala	Ser	Gly	Lys	Val	Met	Asp	Phe	Asn
145					150					155					160

Asn	Gly	Thr	Tyr	Leu	Val	Ser	Phe	Thr	Leu	Phe	Trp	Glu	Gly	Gln	Xaa
				165					170					175	

Xaa	Leu	Xaa	Leu	Leu	Leu	Ile	His	Pro	Ser	Glu	Gly	Ala	Ser	Ala	Xaa
			180					185					190		

Trp	Arg	Ala	Arg	Asn	Gln	Gly	Tyr	Asp	Lys	Ile	Ile	Phe	Lys	Gly	Lys
		195				200						205			

Phe	Val	Asn	Gly	Thr	Ser	His	Val	Phe	Thr	Glu	Cys	Gly	Leu	Thr	Leu
	210					215					220				

Asn	Ser	Asn	Ala	Glu	Leu	Cys	Glu	Tyr	Leu	Asp	Asp	Arg	Asp	Gln	Glu
225					230					235					240

Ala	Phe	Tyr	Cys	Met	Lys	Pro	Gln	His	Met	Pro	Cys	Glu	Ala	Leu	Thr
				245					250					255	

Tyr	Met	Thr	Thr	Arg	Asn	Arg	Glu	Val	Ser	Tyr	Leu	Thr	Asp	Lys	Glu
			260					265					270		
Asn	Ser	Leu	Phe	His	Arg	Ser	Lys	Val	Gly	Val	Glu	Met	Met	Lys	Asp
		275					280					285			
Arg	Lys	His	Ile	Asp	Xaa	Thr	Asn	Xaa	Asn	Lys	Arg	Glu	Xaa	Ile	
	290					295					300				

<210> 1546  
 <211> 1  
 <212> PRT  
 <213> Homo sapiens

<400> 1546  
 Met  
 1

<210> 1547  
 <211> 547  
 <212> PRT  
 <213> Homo sapiens

<400> 1547  
 Met Ser Ser Asn Thr Met Leu Gln Lys Thr Leu Leu Ile Leu Ile Ser  
 1 5 10 15  
 Phe Ser Val Val Thr Trp Met Ile Phe Ile Ile Ser Gln Asn Phe Thr  
 20 25 30  
 Lys Leu Trp Ser Ala Leu Asn Leu Ser Ile Ser Val His Tyr Trp Asn  
 35 40 45  
 Asn Ser Ala Lys Ser Leu Phe Pro Lys Thr Ser Leu Ile Pro Leu Lys  
 50 55 60  
 Pro Leu Thr Glu Thr Glu Leu Arg Ile Lys Glu Ile Ile Glu Lys Leu  
 65 70 75 80  
 Asp Gln Gln Ile Pro Pro Arg Pro Phe Thr His Val Asn Thr Thr Thr  
 85 90 95  
 Ser Ala Thr His Ser Thr Ala Thr Ile Leu Asn Pro Arg Asp Thr Tyr  
 100 105 110  
 Cys Arg Gly Asp Gln Leu Asp Ile Leu Leu Glu Val Arg Asp His Leu  
 115 120 125  
 Gly Gln Arg Lys Gln Tyr Gly Gly Asp Phe Leu Arg Ala Arg Met Ser  
 130 135 140  
 Ser Pro Ala Leu Thr Ala Gly Ala Ser Gly Lys Val Met Asp Phe Asn  
 145 150 155 160

Asn	Gly	Thr	Tyr	Leu	Val	Ser	Phe	Thr	Leu	Phe	Trp	Glu	Gly	Gln	Val			
				165					170					175				
Ser	Leu	Ser	Leu	Leu	Leu	Ile	His	Pro	Ser	Glu	Gly	Ala	Ser	Ala	Leu			
			180					185					190					
Trp	Arg	Ala	Arg	Asn	Gln	Gly	Tyr	Asp	Lys	Ile	Ile	Phe	Lys	Gly	Lys			
		195					200					205						
Phe	Val	Asn	Gly	Thr	Ser	His	Val	Phe	Thr	Glu	Cys	Gly	Leu	Thr	Leu			
	210					215					220							
Asn	Ser	Asn	Ala	Glu	Leu	Cys	Glu	Tyr	Leu	Asp	Asp	Arg	Asp	Gln	Glu			
225					230					235					240			
Ala	Phe	Tyr	Cys	Met	Lys	Pro	Gln	His	Met	Pro	Cys	Glu	Ala	Leu	Thr			
				245					250					255				
Tyr	Met	Thr	Thr	Arg	Asn	Arg	Glu	Val	Ser	Tyr	Leu	Thr	Asp	Lys	Glu			
			260					265					270					
Asn	Ser	Leu	Phe	His	Arg	Ser	Lys	Val	Gly	Val	Glu	Met	Met	Lys	Asp			
		275					280					285						
Arg	Lys	His	Ile	Asp	Val	Thr	Asn	Cys	Asn	Lys	Arg	Glu	Lys	Ile	Glu			
	290					295					300							
Glu	Thr	Cys	Gln	Val	Gly	Met	Lys	Pro	Pro	Val	Pro	Gly	Gly	Tyr	Thr			
305					310					315					320			
Leu	Gln	Gly	Lys	Trp	Ile	Thr	Thr	Phe	Cys	Asn	Gln	Val	Gln	Leu	Asp			
				325					330					335				
Thr	Ile	Lys	Ile	Asn	Gly	Cys	Leu	Lys	Gly	Lys	Leu	Ile	Tyr	Leu	Leu			
			340					345					350					
Gly	Asp	Ser	Thr	Leu	Arg	Gln	Trp	Ile	Tyr	Tyr	Phe	Pro	Lys	Val	Val			
		355					360					365						
Lys	Thr	Leu	Lys	Phe	Phe	Asp	Leu	His	Glu	Thr	Gly	Ile	Phe	Lys	Lys			
	370					375					380							
His	Leu	Leu	Leu	Asp	Ala	Glu	Arg	His	Thr	Gln	Ile	Gln	Trp	Lys	Lys			
385					390					395					400			
His	Ser	Tyr	Pro	Phe	Val	Thr	Phe	Gln	Leu	Tyr	Ser	Leu	Ile	Asp	His			
			405						410					415				
Asp	Tyr	Ile	Pro	Arg	Glu	Ile	Asp	Arg	Leu	Ser	Gly	Asp	Lys	Asn	Thr			
			420					425					430					
Ala	Ile	Val	Ile	Thr	Phe	Gly	Gln	His	Phe	Arg	Pro	Phe	Pro	Ile	Asp			
		435					440					445						
Ile	Phe	Ile	Arg	Arg	Ala	Ile	Gly	Val	Gln	Lys	Ala	Ile	Glu	Arg	Leu			
	450					455					460							

Phe Leu Arg Ser Pro Ala Thr Lys Val Ile Ile Lys Thr Glu Asn Ile  
465 470 475 480

Arg Glu Met His Ile Glu Thr Glu Arg Phe Gly Asp Phe His Gly Tyr  
485 490 495

Ile His Tyr Leu Ile Met Lys Asp Ile Phe Lys Asp Leu Asn Val Gly  
500 505 510

Ile Ile Asp Ala Trp Asp Met Thr Ile Ala Tyr Gly Thr Asp Thr Ile  
515 520 525

His Pro Pro Asp His Val Ile Gly Asn Gln Ile Asn Met Phe Leu Asn  
530 535 540

Tyr Ile Cys  
545

<210> 1548  
<211> 246  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (212)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (220)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (243)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1548  
Met Ala Ser Ala Val Arg Gly Ser Arg Pro Trp Pro Arg Leu Gly Leu  
1 5 10 15

Gln Leu Gln Phe Ala Ala Leu Leu Leu Gly Thr Leu Ser Xaa Gln Val  
20 25 30

His Thr Leu Arg Pro Glu Asn Leu Leu Leu Val Ser Thr Leu Asp Gly  
35 40 45

Ser Leu His Ala Leu Ser Lys Gln Thr Gly Asp Leu Lys Trp Thr Leu

50		55		60											
Arg	Asp	Asp	Pro	Val	Ile	Glu	Gly	Pro	Met	Tyr	Val	Thr	Glu	Met	Ala
65					70					75					80
Phe	Leu	Ser	Asp	Pro	Ala	Asp	Gly	Ser	Leu	Tyr	Ile	Leu	Gly	Thr	Gln
				85					90					95	
Lys	Gln	Gln	Gly	Leu	Met	Lys	Leu	Pro	Phe	Thr	Ile	Pro	Glu	Leu	Val
			100					105					110		
His	Ala	Ser	Pro	Cys	Arg	Ser	Ser	Asp	Gly	Val	Phe	Tyr	Thr	Gly	Arg
		115						120				125			
Lys	Gln	Asp	Ala	Trp	Phe	Val	Val	Asp	Pro	Glu	Ser	Gly	Glu	Thr	Gln
	130					135					140				
Met	Thr	Leu	Thr	Thr	Glu	Gly	Pro	Ser	Thr	Pro	Arg	Leu	Tyr	Ile	Gly
145					150					155					160
Arg	Thr	Gln	Tyr	Thr	Val	Thr	Met	His	Asp	Pro	Arg	Ala	Pro	Ala	Leu
				165					170					175	
Arg	Trp	Asn	Thr	Thr	Tyr	Arg	Arg	Tyr	Ser	Thr	Pro	Pro	Met	Asp	Gly
			180					185					190		
Ser	Thr	Gly	Lys	Tyr	Met	Ser	Gln	Leu	Gly	Val	Leu	Arg	Glu	Gly	Pro
		195					200					205			
Ala	Ala	His	Xaa	Gly	Thr	Pro	Gly	Ser	Gly	Thr	Xaa	Leu	Leu	Asp	Thr
	210					215					220				
Arg	Asn	Leu	Gly	Arg	Ala	Leu	Gly	Asn	Gly	Pro	Ala	Thr	Pro	Leu	Gly
225					230					235					240
Thr	Lys	Xaa	Arg	Ala	Trp										
				245											

<210> 1549  
 <211> 473  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (321)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (386)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE

<222> (391)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1549

Met	Ala	Ser	Ala	Val	Arg	Gly	Ser	Arg	Pro	Trp	Pro	Arg	Leu	Gly	Leu	
1				5					10					15		
Gln	Leu	Gln	Phe	Ala	Ala	Leu	Leu	Leu	Gly	Thr	Leu	Ser	Pro	Gln	Val	
			20					25					30			
His	Thr	Leu	Arg	Pro	Glu	Asn	Leu	Leu	Leu	Val	Ser	Thr	Leu	Asp	Gly	
		35					40					45				
Ser	Leu	His	Ala	Leu	Ser	Lys	Gln	Thr	Gly	Asp	Leu	Lys	Trp	Thr	Leu	
	50					55					60					
Arg	Asp	Asp	Pro	Val	Ile	Glu	Gly	Pro	Met	Tyr	Val	Thr	Glu	Met	Ala	
65					70					75					80	
Phe	Leu	Ser	Asp	Pro	Ala	Asp	Gly	Ser	Leu	Tyr	Ile	Leu	Gly	Thr	Gln	
				85					90						95	
Lys	Gln	Gln	Gly	Leu	Met	Lys	Leu	Pro	Phe	Thr	Ile	Pro	Glu	Leu	Val	
			100					105								
His	Ala	Ser	Pro	Cys	Arg	Ser	Ser	Asp	Gly	Val	Phe	Tyr	Thr	Gly	Arg	
		115					120					125				
Lys	Gln	Asp	Ala	Trp	Phe	Val	Val	Asp	Pro	Glu	Ser	Gly	Glu	Thr	Gln	
	130					135					140					
Met	Thr	Leu	Thr	Thr	Glu	Gly	Pro	Ser	Thr	Pro	Arg	Leu	Tyr	Ile	Gly	
145					150					155					160	
Arg	Thr	Gln	Tyr	Thr	Val	Thr	Met	His	Asp	Pro	Arg	Ala	Pro	Ala	Leu	
				165					170						175	
Arg	Trp	Asn	Thr	Thr	Tyr	Arg	Arg	Tyr	Ser	Ala	Pro	Pro	Met	Asp	Gly	
			180					185						190		
Ser	Pro	Gly	Lys	Tyr	Met	Ser	His	Leu	Ala	Ser	Cys	Gly	Met	Gly	Leu	
		195					200					205				
Leu	Leu	Thr	Val	Asp	Pro	Gly	Ser	Gly	Thr	Val	Leu	Trp	Thr	Gln	Asp	
	210					215					220					
Leu	Gly	Val	Pro	Val	Met	Gly	Val	Tyr	Thr	Trp	His	Gln	Asp	Gly	Leu	
225					230					235					240	
Arg	Gln	Leu	Pro	His	Leu	Thr	Leu	Ala	Arg	Asp	Thr	Leu	His	Phe	Leu	
				245					250						255	
Ala	Leu	Arg	Trp	Gly	His	Ile	Arg	Leu	Pro	Ala	Ser	Gly	Pro	Arg	Asp	
			260					265					270			
Thr	Ala	Thr	Leu	Phe	Ser	Thr	Leu	Asp	Thr	Gln	Leu	Leu	Met	Thr	Leu	
			275				280						285			



Tyr Val Gly Lys Asp Glu Thr Gly Phe Tyr Val Ser Lys Ala Leu Val  
 290 295 300  
 His Thr Gly Val Ala Leu Val Pro Arg Gly Leu Thr Leu Ala Pro Ala  
 305 310 315 320  
 Xaa Gly Pro Thr Thr Asp Glu Val Thr Leu Gln Val Ser Gly Glu Arg  
 325 330 335  
 Glu Gly Ser Pro Ser Thr Ala Val Arg Tyr Pro Ser Gly Ser Val Ala  
 340 345 350  
 Leu Pro Ser Gln Trp Leu Leu Ile Gly His His Glu Leu Pro Pro Val  
 355 360 365  
 Leu His Thr Thr Met Leu Arg Val His Pro Thr Leu Gly Ser Gly Thr  
 370 375 380  
 Ala Xaa Thr Arg Pro Pro Xaa Asn Thr Gln Ala Pro Ala Phe Phe Leu  
 385 390 395 400  
 Glu Leu Leu Ser Leu Ser Arg Glu Lys Leu Trp Asp Ser Glu Leu His  
 405 410 415  
 Pro Glu Glu Lys Thr Pro Asp Ser Tyr Leu Gly Leu Gly Pro Gln Asp  
 420 425 430  
 Leu Leu Ala Ala Ser Leu Thr Ala Val Leu Leu Gly Gly Trp Ile Leu  
 435 440 445  
 Phe Val Met Arg Gln Gln Gln Pro Gln Val Val Glu Lys Gln Gln Glu  
 450 455 460  
 Thr Pro Leu Ala Pro Ala Ala Trp Gly  
 465 470

<210> 1550  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 1550

Met Cys Met Arg Leu Cys Ala Ala Leu Leu Pro Ala Pro Cys Thr Leu  
 1 5 10 15  
 Arg Ala Ser Trp Gly Val Arg Gly Ala Gln Trp Gly Phe Ser Ser Leu  
 20 25 30  
 His Glu Pro Gly Asp Pro Arg Gly Gly Ser Ile Trp Asp Glu Pro Pro  
 35 40 45  
 Pro Pro Asn Ala Gln Ala Ser Pro Gln Asp Pro Gly Gly Gly His His  
 50 55 60



Ser Gly Lys Pro Gly Val Gly Val Gly Phe Gly Leu Ser Thr Phe Leu  
65 70 75 80

Leu Gln Ile Pro Pro Thr His Pro Ser Pro Lys Ser Ser Pro Leu Ala  
85 90 95

Leu Ala

<210> 1551  
<211> 98  
<212> PRT  
<213> Homo sapiens

<400> 1551  
Met Cys Met Arg Leu Cys Ala Ala Leu Leu Pro Ala Pro Cys Thr Leu  
1 5 10 15

Arg Ala Ser Trp Gly Val Arg Gly Ala Gln Trp Gly Phe Ser Ser Leu  
20 25 30

His Glu Pro Gly Asp Pro Arg Gly Gly Ser Ile Trp Asp Glu Pro Pro  
35 40 45

Pro Pro Asn Ala Gln Ala Ser Pro Gln Asp Pro Gly Gly Gly His His  
50 55 60

Ser Gly Lys Pro Gly Val Gly Val Gly Phe Gly Leu Ser Thr Phe Leu  
65 70 75 80

Leu Gln Ile Pro Pro Thr His Pro Ser Pro Lys Ser Ser Pro Leu Ala  
85 90 95

Leu Ala

<210> 1552  
<211> 94  
<212> PRT  
<213> Homo sapiens

<400> 1552  
Met Gly Val Leu Trp Tyr Thr Phe Trp Tyr Thr Phe Thr Leu Leu Glu  
1 5 10 15

Cys Ser Arg Ser Ser Asn Asp Ser Arg Thr Leu Val Leu Ile Cys Leu  
20 25 30

Ser Leu Leu Gly Phe Asp Phe Val Arg Val Leu Asn Ile Lys Leu Ala  
35 40 45

Val Gly Glu Ser Thr Leu His Met Leu Ser Leu Pro Phe Ser Leu Arg  
50 55 60

Leu Ser Pro Ala Leu Pro Phe Ser Pro Phe Leu Leu Leu Met Asn Lys  
65 70 75 80

Pro Leu Ser Asp Val Gln Tyr Phe Asn Leu His Phe Ala Gly  
85 90

<210> 1553  
<211> 49  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1553  
Xaa Xaa Tyr Asp Glu Lys Leu Ile Phe Ile Gln Ile Leu Gln Thr Lys  
1 5 10 15

Ala Thr Asp Lys Tyr Ser Glu Gln Val Ser Gln Val Gly Pro Gly Ala  
20 25 30

Val Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala Glu Ala Gly Gly  
35 40 45

Ser

<210> 1554  
<211> 141  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (140)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1554  
Met Gly Pro Arg Gly Cys Ala Leu Ala His Ser Leu Leu Pro Leu Leu  
1 5 10 15

Cys Gln His Val Trp Thr Ser Pro Arg Tyr Cys Arg Gln Cys Thr Arg  
20 25 30

Glu Pro Arg His Cys Cys Pro Ala Pro Ala Ser Ala Gly Val Gln Tyr

	35		40		45											
Met	Cys	Ala	Tyr	Gly	Cys	His	His	Pro	Thr	Phe	Ala	Gly	Val	Tyr	Thr	
	50					55					60					
Pro	Ser	His	Thr	Thr	Val	Ala	Thr	Ser	Ile	Cys	Thr	Gln	Thr	Pro	Pro	
65					70					75					80	
His	Gln	Cys	Cys	Trp	Ser	Glu	His	Thr	His	Val	Val	Ser	Thr	Thr	Pro	
				85					90						95	
Leu	Leu	Pro	Ala	Tyr	Met	His	Met	Ser	Met	Asp	Pro	Ala	Ala	Thr	Thr	
			100					105					110			
Gln	Met	Lys	Cys	Phe	Cys	Arg	His	Pro	Ile	Arg	Ala	Phe	Leu	Pro	Val	
	115						120					125				
Glu	Trp	Glu	His	Leu	Ser	Pro	Phe	Asn	Thr	Ala	Xaa	Ala				
130						135					140					

<210> 1555  
 <211> 141  
 <212> PRT  
 <213> Homo sapiens

<400> 1555																
Met	Gly	Pro	Arg	Gly	Cys	Ala	Leu	Ala	His	Ser	Leu	Leu	Pro	Leu	Leu	
1				5					10					15		
Cys	Gln	His	Val	Trp	Thr	Ser	Pro	Arg	Tyr	Cys	Arg	Gln	Cys	Thr	Arg	
			20					25					30			
Glu	Pro	Arg	His	Cys	Cys	Pro	Ala	Pro	Ala	Ser	Ala	Gly	Val	Gln	Tyr	
		35					40					45				
Met	Cys	Ala	Tyr	Gly	Cys	His	His	Pro	Thr	Phe	Ala	Gly	Val	Tyr	Thr	
	50					55					60					
Pro	Ser	His	Thr	Thr	Val	Ala	Thr	Ser	Ile	Cys	Thr	Gln	Thr	Pro	Pro	
65					70					75					80	
His	Gln	Cys	Cys	Trp	Ser	Glu	His	Thr	His	Val	Val	Ser	Thr	Thr	Pro	
				85					90						95	
Leu	Leu	Pro	Ala	Tyr	Met	His	Met	Ser	Met	Asp	Pro	Ala	Ala	Thr	Thr	
			100					105					110			
Gln	Met	Lys	Cys	Phe	Cys	Arg	His	Pro	Ile	Arg	Ala	Phe	Leu	Pro	Val	
	115						120					125				
Glu	Trp	Glu	His	Leu	Ser	Pro	Ser	Asn	Thr	Ala	Gly	Ala				
130						135					140					

<210> 1556  
<211> 93  
<212> PRT  
<213> Homo sapiens

<400> 1556  
Met Ile Val Asn Ile Ser His Glu Ile Trp Trp Phe Tyr Lys Gly Lys  
1 5 10 15  
Val Pro Leu His Met Leu Thr Cys Leu Leu Pro Cys Lys Thr Cys Leu  
20 25 30  
Ala Pro Pro Ser Pro Ser Ser Val Thr Val Arg Pro Pro Gln Pro Cys  
35 40 45  
Glu Thr Val Ser Pro Leu Lys Leu Phe Phe Phe Ile Asn Tyr Pro Val  
50 55 60  
Leu His Met Ser Leu Leu Thr Val Arg Lys Trp Thr Asn Thr Leu Gly  
65 70 75 80  
His Glu Gly Gly Ala Leu Ile Asn Gly Ile Ser Ala Leu  
85 90

<210> 1557  
<211> 59  
<212> PRT  
<213> Homo sapiens

<400> 1557  
Glu Glu His Gly Ile Thr Ser Val Ile Phe Leu Pro Gln Val His Asn  
1 5 10 15  
Leu Asn Leu Ile Ile Arg Lys His Gln Thr Asn Pro Asn Gln Glu Thr  
20 25 30  
Leu Tyr Lys Ile Met Thr Cys Asp Pro Gln Asn Leu Gln Gly His Glu  
35 40 45  
Gln Gln Gly Lys Thr Glu Asp Lys Cys Thr Val  
50 55

<210> 1558  
<211> 93  
<212> PRT  
<213> Homo sapiens

<400> 1558  
Met Ile Val Asn Ile Ser His Glu Ile Trp Trp Phe Tyr Lys Gly Lys  
1 5 10 15  
Val Pro Leu His Met Leu Thr Cys Leu Leu Pro Cys Lys Thr Cys Leu  
20 25 30

Ala Pro Pro Ser Pro Ser Ser Val Thr Val Arg Pro Pro Gln Pro Cys  
35 40 45

Glu Thr Val Ser Pro Leu Lys Leu Phe Phe Phe Ile Asn Tyr Pro Val  
50 55 60

Leu His Met Ser Leu Leu Thr Val Arg Lys Trp Thr Asn Thr Leu Gly  
65 70 75 80

His Glu Gly Gly Ala Leu Ile Asn Gly Ile Ser Ala Leu  
85 90

<210> 1559  
<211> 100  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (85)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (88)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (95)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (99)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1559  
Met Leu Leu Gln Arg Thr Arg Phe Leu Leu Leu Phe Phe Ser Phe Val  
1 5 10 15

Ser Ser Phe Phe Leu Ser Leu Pro Ser Phe Ser Leu Phe Phe Leu Phe  
20 25 30

Leu Ser Leu Ser Leu Phe Cys Ile His Val Ala Ala Lys Asp Met Ile  
35 40 45

Ser Ser Phe Phe Ser Leu Pro Phe Ser Phe Leu Ser Phe Xaa Leu Ser  
50 55 60

Phe	Leu	Leu	Pro	Ser	Phe	Ser	Phe	Phe	Tyr	Phe	Phe	Phe	Phe	Trp	Leu
65					70				75						80
Ser	Phe	Phe	Phe	Xaa	Ser	Lys	Xaa	Leu	Ala	Leu	Val	Pro	Lys	Xaa	Gly
				85				90						95	
Met	Gln	Xaa	Val												
			100												

<210> 1560  
 <211> 87  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (86)  
 <223> Xaa equals any of the naturally occurring L-amino acids

Met	Val	Val	Met	Ala	Ser	Leu	Gln	Val	Glu	Pro	Ala	Val	Gly	Lys	Glu
1				5					10					15	
Gln	Leu	Arg	Glu	Arg	Gln	Gly	Pro	Glu	Leu	Leu	Gly	Trp	Val	Ala	Gly
			20					25					30		
Leu	Ala	Phe	Val	Cys	Leu	Phe	Ala	Cys	Val	Gly	Val	Gly	Val	Ala	Pro
		35					40					45			
Cys	His	Ser	Phe	Asp	Ser	Glu	Ala	Ala	Ser	Phe	Leu	Leu	Leu	Tyr	Ser
	50					55					60				
Trp	Cys	Thr	Pro	Arg	Leu	Xaa	Ser	Trp	Leu	Arg	Asp	Thr	Pro	Ser	Pro
65					70				75						80
Leu	Ala	Ser	Gly	Thr	Xaa	Pro									
				85											

<210> 1561  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

Val	Arg	Ala	Met	Phe	Gly	Phe	Leu	Ala	Cys	Val	Ser	Ser	Leu	Arg	Val
1				5					10					15	

Met Ala Ser Ser Ser Ser His Val Thr Ser Glu Asp Met Ile Leu Phe  
20 25 30

Leu Ile Ser Cys Gly Ile Tyr Val Pro His Phe Leu Tyr Pro Val Asp  
35 40 45

Arg

<210> 1562  
<211> 168  
<212> PRT  
<213> Homo sapiens

<400> 1562

Met Val Val Met Ala Ser Leu Gln Val Glu Pro Ala Val Gly Lys Glu  
1 5 10 15

Gln Leu Arg Glu Arg Gln Gly Pro Glu Leu Leu Gly Trp Val Ala Gly  
20 25 30

Leu Ala Phe Val Cys Leu Phe Ala Cys Val Gly Val Gly Val Ala Pro  
35 40 45

Cys His Ser Phe Asp Ser Glu Ala Ala Ser Phe Leu Leu Leu Tyr Ser  
50 55 60

Trp Cys Thr Pro Arg Leu Leu Ser Trp Leu Arg Asp Thr Pro Ser Pro  
65 70 75 80

Leu Ala Ser Gly Thr Phe Pro Pro His Ser Pro Leu Gly Glu Arg Pro  
85 90 95

Leu Leu Ser Gly Pro Pro Ser Ser Ser Gln Gln Leu Leu Val Val Gly  
100 105 110

Pro Cys Ala Leu Arg Phe Val Gly Ala Arg His Val Lys Thr Ala Gly  
115 120 125

Phe Arg Asp Gly Phe Ser Leu Pro Ser Ser Ser Val Phe Ser Glu Phe  
130 135 140

Trp Lys Met Thr Leu Leu Glu Ala Pro Leu Leu Cys His Leu Ser Ser  
145 150 155 160

Lys Ser Gly Ala Ser Ala Cys Trp  
165

<210> 1563  
<211> 200  
<212> PRT  
<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (140)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (155)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (165)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (173)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (194)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (196)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1563  
 Met Ala Val Tyr Val Gly Met Leu Arg Leu Gly Arg Leu Cys Ala Gly  
     1                    5                    10                    15  
 Ser Ser Gly Val Leu Gly Ala Arg Ala Ala Leu Ser Arg Ser Trp Gln  
                     20                    25                    30  
 Glu Ala Arg Leu Gln Gly Val Arg Phe Leu Ser Ser Arg Glu Val Asp  
                     35                    40                    45  
 Arg Met Val Ser Thr Pro Ile Gly Gly Leu Ser Tyr Val Gln Gly Cys  
                     50                    55                    60  
 Thr Lys Lys His Leu Asn Ser Lys Thr Val Gly Gln Cys Leu Glu Thr  
     65                    70                    75                    80  
 Thr Ala Gln Arg Val Pro Glu Arg Glu Ala Leu Val Val Leu His Glu  
                     85                    90                    95  
 Asp Val Arg Leu Thr Phe Ala Gln Leu Lys Glu Glu Val Asp Lys Ala  
                     100                    105                    110  
 Ala Ser Gly Leu Leu Ser Ile Gly Leu Cys Lys Gly Asp Arg Leu Gly  
                     115                    120                    125  
 Met Trp Gly Pro Asn Ser Tyr Ala Trp Val Leu Xaa Gln Leu Ala Thr  
     130                    135                    140



Gly	Gln	Ala	Gly	Ile	Ile	Leu	Val	Ser	Val	Xaa	Pro	Ala	Tyr	Gln	Ala
145					150					155					160
Met	Glu	Trp	Ser	Xaa	Ser	Ser	Lys	Lys	Trp	Ala	Ser	Xaa	Ala	Leu	Val
				165					170					175	
Val	Pro	Lys	Gln	Phe	Lys	Thr	Lys	His	Asn	Thr	Thr	Phe	Leu	Lys	Gln
			180					185					190		
Ile	Xaa	Pro	Xaa	Trp	Arg	Met	Pro								
		195					200								

<210> 1564  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (80)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1564  

Met	Ala	Xaa	Tyr	Val	Gly	Met	Leu	Arg	Leu	Gly	Xaa	Leu	Cys	Ala	Gly
1				5					10					15	
Ser	Ser	Gly	Val	Leu	Gly	Ala	Arg	Ala	Ala	Leu	Ser	Arg	Ser	Trp	Gln
			20				25						30		
Glu	Ala	Arg	Leu	Gln	Gly	Val	Arg	Phe	Leu	Ser	Ser	Arg	Glu	Val	Gly
		35					40					45			
Ser	His	Gly	Leu	His	Ala	His	Arg	Xaa	Ala	Ser	Ala	Thr	Xaa	Arg	Gly
	50					55					60				

Ala Pro Lys Ser Ile Leu Thr Ala Arg Leu Trp Ala Ser Ala Trp Xaa  
65 70 75 80

Pro Gln His Arg Gly Ser Gln Asn Glu Arg Pro Trp Ser Ser Ser Met  
85 90 95

Lys Thr Ser Gly  
100

<210> 1565  
<211> 461  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (424)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (459)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1565  
Met Ala Val Tyr Val Gly Met Leu Arg Leu Gly Arg Leu Cys Ala Gly  
1 5 10 15

Ser Ser Gly Val Leu Gly Ala Arg Ala Ala Leu Ser Arg Ser Trp Gln  
20 25 30

Glu Ala Arg Leu Gln Gly Val Arg Phe Leu Ser Ser Arg Glu Val Asp  
35 40 45

Arg Met Val Ser Thr Pro Ile Gly Gly Leu Ser Tyr Val Gln Gly Cys  
50 55 60

Thr Lys Lys His Leu Asn Ser Lys Thr Val Gly Gln Cys Leu Glu Thr  
65 70 75 80

Thr Ala Gln Arg Val Pro Glu Arg Glu Ala Leu Val Val Leu His Glu  
85 90 95

Asp Val Arg Leu Thr Phe Ala Gln Leu Lys Glu Glu Val Asp Lys Ala  
100 105 110

Ala Ser Gly Leu Leu Ser Ile Gly Leu Cys Lys Gly Asp Arg Leu Gly  
115 120 125

Met Trp Gly Pro Asn Ser Tyr Ala Trp Val Leu Met Gln Leu Ala Thr  
130 135 140

Ala Gln Ala Gly Ile Ile Leu Val Ser Val Asn Pro Ala Tyr Gln Ala  
145 150 155 160

Met	Glu	Leu	Glu	Tyr	Val	Leu	Lys	Lys	Val	Gly	Cys	Lys	Ala	Leu	Val	165	170	175	
Phe	Pro	Lys	Gln	Phe	Lys	Thr	Gln	Gln	Tyr	Tyr	Asn	Val	Leu	Lys	Gln	180	185	190	
Ile	Cys	Pro	Glu	Val	Glu	Asn	Ala	Gln	Pro	Gly	Ala	Leu	Lys	Ser	Gln	195	200	205	
Arg	Leu	Pro	Asp	Leu	Thr	Thr	Val	Ile	Ser	Val	Asp	Ala	Pro	Leu	Pro	210	215	220	
Gly	Thr	Leu	Leu	Leu	Asp	Glu	Val	Val	Ala	Ala	Gly	Ser	Thr	Arg	Gln	225	230	235	240
His	Leu	Asp	Gln	Leu	Gln	Tyr	Asn	Gln	Gln	Phe	Leu	Ser	Cys	His	Asp	245	250	255	
Pro	Ile	Asn	Ile	Gln	Phe	Thr	Ser	Gly	Thr	Thr	Gly	Ser	Pro	Lys	Gly	260	265	270	
Ala	Thr	Leu	Ser	His	Tyr	Asn	Ile	Val	Asn	Asn	Ser	Asn	Ile	Leu	Gly	275	280	285	
Glu	Arg	Leu	Lys	Leu	His	Glu	Lys	Thr	Pro	Glu	Gln	Leu	Arg	Met	Ile	290	295	300	
Leu	Pro	Asn	Pro	Leu	Tyr	His	Cys	Leu	Gly	Ser	Val	Ala	Gly	Thr	Met	305	310	315	320
Met	Cys	Leu	Met	Tyr	Gly	Ala	Thr	Leu	Ile	Leu	Ala	Ser	Pro	Ile	Phe	325	330	335	
Asn	Gly	Lys	Lys	Ala	Leu	Glu	Ala	Ile	Ser	Arg	Glu	Arg	Gly	Thr	Phe	340	345	350	
Leu	Tyr	Gly	Thr	Pro	Thr	Met	Phe	Val	Asp	Ile	Leu	Asn	Gln	Pro	Asp	355	360	365	
Phe	Ser	Ser	Tyr	Asp	Ile	Ser	Thr	Met	Cys	Gly	Gly	Val	Ile	Ala	Gly	370	375	380	
Ser	Pro	Ala	Pro	Pro	Glu	Leu	Ile	Arg	Ala	Ile	Ile	Asn	Lys	Ile	Asn	385	390	395	400
Met	Lys	Asp	Leu	Val	Val	Ala	Tyr	Gly	Thr	Thr	Glu	Asn	Ser	Pro	Val	405	410	415	
Thr	Phe	Ala	His	Phe	Pro	Glu	Xaa	Thr	Pro	Lys	Pro	Leu	Asp	Lys	Glu	420	425	430	
Lys	Arg	Ala	Glu	Tyr	Ala	Ser	His	Gly	Gly	Glu	Pro	Leu	Thr	Lys	Thr	435	440	445	
Ser	Lys	Ser	His	Leu	Pro	Ser	Pro	Ser	Trp	Xaa	Gly	Ser				450	455	460	

<210> 1566  
 <211> 177  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (121)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (122)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1566  
 Met Lys Val Leu Ala Thr Ser Phe Val Leu Gly Ser Leu Gly Leu Ala  
   1                  5                  10                  15  
 Phe Tyr Leu Pro Leu Val Val Thr Thr Pro Lys Thr Leu Ala Ile Pro  
                   20                  25                  30  
 Glu Lys Leu Gln Glu Ala Val Gly Lys Val Ile Ile Asn Ala Thr Thr  
           35                  40                  45  
 Cys Thr Val Thr Cys Gly Leu Gly Tyr Lys Glu Glu Thr Val Cys Glu  
       50                  55                  60  
 Val Gly Pro Asp Gly Val Arg Arg Lys Cys Gln Thr Arg Arg Leu Glu  
   65                  70                  75                  80  
 Cys Leu Thr Asn Trp Ile Cys Gly Met Leu His Phe Thr Ile Leu Ile  
                   85                  90                  95  
 Gly Lys Glu Phe Glu Leu Ser Cys Leu Ser Ser Asp Ile Leu Glu Phe  
                   100                  105                  110  
 Gly Gln Glu Ala Phe Arg Phe Thr Xaa Xaa Leu Ala Arg Gly Val Ile  
           115                  120                  125  
 Ser Thr Asp Asp Glu Val Phe Lys Pro Phe Gln Ala Asn Ser His Phe  
       130                  135                  140  
 Val Lys Phe Lys Tyr Ala Gln Glu Tyr Asp Ser Gly Thr Tyr Arg Cys  
   145                  150                  155                  160  
 Asp Val Gln Leu Val Lys Asn Leu Arg Leu Val Lys Ser Ser Ile Leu  
           165                  170                  175

Gly

<210> 1567  
 <211> 255  
 <212> PRT  
 <213> Homo sapiens

<400> 1567  
 Met Lys Val Leu Ala Thr Ser Phe Val Leu Gly Ser Leu Gly Leu Ala  
   1                  5                  10                  15  
 Phe Tyr Leu Pro Leu Val Val Thr Thr Pro Lys Thr Leu Ala Ile Pro  
                   20                  25                  30  
 Glu Lys Leu Gln Glu Ala Val Gly Lys Val Ile Ile Asn Ala Thr Thr  
           35                  40                  45  
 Cys Thr Val Thr Cys Gly Leu Gly Tyr Lys Glu Glu Thr Val Cys Glu  
       50                  55                  60  
 Val Gly Pro Asp Gly Val Arg Arg Lys Cys Gln Thr Gln Arg Leu Glu  
   65                  70                  75                  80  
 Cys Leu Thr Asn Trp Ile Cys Gly Met Leu His Phe Thr Ile Leu Ile  
                   85                  90                  95  
 Gly Lys Glu Phe Glu Leu Ser Cys Leu Ser Ser Asp Ile Leu Glu Phe  
           100                  105                  110  
 Gly Gln Glu Ala Phe Arg Phe Thr Trp Arg Leu Ala Arg Gly Val Ile  
           115                  120                  125  
 Ser Thr Asp Asp Glu Val Phe Lys Pro Phe Gln Ala Asn Ser His Phe  
       130                  135                  140  
 Val Lys Phe Lys Tyr Ala Gln Glu Tyr Asp Ser Gly Thr Tyr Arg Cys  
   145                  150                  155                  160  
 Asp Val Gln Leu Val Lys Asn Leu Arg Leu Val Lys Arg Leu Tyr Phe  
           165                  170                  175  
 Gly Leu Arg Val Leu Pro Pro Asn Leu Val Asn Leu Asn Phe His Gln  
           180                  185                  190  
 Ser Leu Thr Glu Asp Gln Lys Leu Ile Asp Glu Gly Leu Glu Val Asn  
       195                  200                  205  
 Leu Asp Ser Tyr Ser Lys Pro His His Pro Lys Trp Lys Lys Lys Val  
       210                  215                  220  
 Ala Ser Ala Leu Gly Ile Gly Ile Ala Ile Gly Val Val Gly Gly Val  
   225                  230                  235                  240  
 Leu Val Arg Ile Val Leu Cys Ala Leu Arg Gly Gly Leu Gln Gln  
           245                  250                  255

<210> 1568

<211> 255  
<212> PRT  
<213> Homo sapiens

<400> 1568

Met	Lys	Val	Leu	Ala	Thr	Ser	Phe	Val	Leu	Gly	Ser	Leu	Gly	Leu	Ala	
1				5					10					15		
Phe	Tyr	Leu	Pro	Leu	Val	Val	Thr	Thr	Pro	Lys	Thr	Leu	Ala	Ile	Pro	
			20					25					30			
Glu	Lys	Leu	Gln	Glu	Ala	Val	Gly	Lys	Val	Ile	Ile	Asn	Ala	Thr	Thr	
		35					40					45				
Cys	Thr	Val	Thr	Cys	Gly	Leu	Gly	Tyr	Lys	Glu	Glu	Thr	Val	Cys	Glu	
	50					55					60					
Val	Gly	Pro	Asp	Gly	Val	Arg	Arg	Lys	Cys	Gln	Thr	Arg	Arg	Leu	Glu	
65					70					75					80	
Cys	Leu	Thr	Asn	Trp	Ile	Cys	Gly	Met	Leu	His	Phe	Thr	Ile	Leu	Ile	
			85						90					95		
Gly	Lys	Glu	Phe	Glu	Leu	Ser	Cys	Leu	Ser	Ser	Asp	Ile	Leu	Glu	Phe	
			100					105					110			
Gly	Gln	Glu	Ala	Phe	Arg	Phe	Thr	Trp	Arg	Leu	Ala	Arg	Gly	Val	Ile	
		115					120					125				
Ser	Thr	Asp	Asp	Glu	Val	Phe	Lys	Pro	Phe	Gln	Ala	Asn	Ser	His	Phe	
		130				135					140					
Val	Lys	Phe	Lys	Tyr	Ala	Gln	Glu	Tyr	Asp	Ser	Gly	Thr	Tyr	Arg	Cys	
145					150				155						160	
Asp	Val	Gln	Leu	Val	Lys	Asn	Leu	Arg	Leu	Val	Lys	Arg	Leu	Tyr	Phe	
			165					170						175		
Gly	Leu	Arg	Val	Leu	Pro	Pro	Asn	Leu	Val	Asn	Leu	Asn	Phe	His	Gln	
			180					185					190			
Ser	Leu	Thr	Glu	Asp	Gln	Lys	Leu	Ile	Asp	Glu	Gly	Leu	Glu	Val	Asn	
		195					200					205				
Leu	Asp	Ser	Tyr	Ser	Lys	Pro	His	His	Pro	Lys	Trp	Lys	Lys	Lys	Val	
	210					215					220					
Ala	Ser	Ala	Leu	Gly	Ile	Gly	Ile	Ala	Ile	Gly	Val	Val	Gly	Gly	Val	
225					230					235					240	
Leu	Val	Arg	Ile	Val	Leu	Cys	Ala	Leu	Arg	Gly	Gly	Leu	Gln	Gln		
			245						250					255		

<210> 1569  
<211> 52

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (46)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1569  
Met Val Pro Ile Phe Leu Leu Lys Cys Leu Leu Leu His Val Pro Leu  
1 5 10 15  
Cys Met Ser Ser Asn Leu Ser Phe His Ser Ser His His Leu His Ile  
20 25 30  
Phe Leu Pro Ser Phe Ser Ser His Leu Pro Arg Pro Leu Xaa Ile Pro  
35 40 45  
Pro Leu Ser Pro  
50

<210> 1570  
<211> 1134  
<212> PRT  
<213> Homo sapiens

<400> 1570  
Val Leu Phe Arg Pro Gln Ala Gln Arg Pro Pro Ser Cys Val Gly Gly  
1 5 10 15  
Ser Ala Val Arg Arg Trp Gln Gly Gln Pro Gln Pro Gln Arg Pro Gly  
20 25 30  
Glu Glu Lys Ala Ala Ala Ala Ile Leu Gly Gly Pro Gly Gly Gly Glu  
35 40 45  
Glu Glu Lys Glu Glu Gly Gly Gly Arg Ala Trp Leu Arg Leu Leu Glu  
50 55 60  
Glu Leu Ala Ala Ala Arg Pro Gly Glu Pro Ala Leu Met Ser Ser Ser  
65 70 75 80  
Pro Leu Ser Lys Lys Arg Arg Val Ser Gly Pro Asp Pro Lys Pro Gly  
85 90 95  
Ser Asn Cys Ser Pro Ala Gln Ser Val Leu Ser Glu Val Pro Ser Val  
100 105 110  
Pro Thr Asn Gly Met Ala Lys Asn Gly Ser Glu Ala Asp Ile Asp Glu  
115 120 125  
Gly Leu Tyr Ser Arg Gln Leu Tyr Val Leu Gly His Glu Ala Met Lys  
130 135 140  
Arg Leu Gln Thr Ser Ser Val Leu Val Ser Gly Leu Arg Gly Leu Gly



145		150		155		160									
Val	Glu	Ile	Ala	Lys	Asn	Ile	Ile	Leu	Gly	Gly	Val	Lys	Ala	Val	Thr
				165					170					175	
Leu	His	Asp	Gln	Gly	Thr	Ala	Gln	Trp	Ala	Asp	Leu	Ser	Ser	Gln	Phe
			180					185					190		
Tyr	Leu	Arg	Glu	Glu	Asp	Ile	Gly	Lys	Asn	Arg	Ala	Glu	Val	Ser	Gln
		195					200					205			
Pro	Arg	Leu	Ala	Glu	Leu	Asn	Ser	Tyr	Val	Pro	Val	Thr	Ala	Tyr	Thr
		210				215					220				
Gly	Pro	Leu	Val	Glu	Asp	Phe	Leu	Ser	Gly	Phe	Gln	Val	Val	Val	Leu
225					230					235					240
Thr	Asn	Thr	Pro	Leu	Glu	Asp	Gln	Leu	Arg	Val	Gly	Glu	Phe	Cys	His
				245					250					255	
Asn	Arg	Gly	Ile	Lys	Leu	Val	Val	Ala	Asp	Thr	Arg	Gly	Leu	Phe	Gly
			260					265					270		
Gln	Leu	Phe	Cys	Asp	Phe	Gly	Glu	Glu	Met	Ile	Leu	Thr	Asp	Ser	Asn
		275					280					285			
Gly	Glu	Gln	Pro	Leu	Ser	Ala	Met	Val	Ser	Met	Val	Thr	Lys	Asp	Asn
		290				295					300				
Pro	Gly	Val	Val	Thr	Cys	Leu	Asp	Glu	Ala	Arg	His	Gly	Phe	Glu	Ser
305					310					315					320
Gly	Asp	Phe	Val	Ser	Phe	Ser	Glu	Val	Gln	Gly	Met	Val	Glu	Leu	Asn
				325					330					335	
Gly	Asn	Gln	Pro	Met	Glu	Ile	Lys	Val	Leu	Gly	Pro	Tyr	Thr	Phe	Ser
			340					345					350		
Ile	Cys	Asp	Thr	Ser	Asn	Phe	Ser	Asp	Tyr	Ile	Arg	Gly	Gly	Ile	Val
		355					360					365			
Ser	Gln	Val	Lys	Val	Pro	Lys	Lys	Ile	Ser	Phe	Lys	Ser	Leu	Val	Ala
		370				375					380				
Ser	Leu	Ala	Glu	Pro	Asp	Phe	Val	Val	Thr	Asp	Phe	Ala	Lys	Phe	Ser
385					390					395					400
Arg	Pro	Ala	Gln	Leu	His	Ile	Gly	Phe	Gln	Ala	Leu	His	Gln	Phe	Cys
				405					410					415	
Ala	Gln	His	Gly	Arg	Pro	Pro	Arg	Pro	Arg	Asn	Glu	Glu	Asp	Ala	Ala
			420					425					430		
Glu	Leu	Val	Ala	Leu	Ala	Gln	Ala	Val	Asn	Ala	Arg	Ala	Leu	Pro	Ala
		435					440					445			
Val	Gln	Gln	Asn	Asn	Leu	Asp	Glu	Asp	Leu	Ile	Arg	Lys	Leu	Ala	Tyr



450	455	460
Val Ala Ala Gly Asp Leu	Ala Pro Ile Asn Ala Phe Ile Gly Gly Leu	
465	470	475 480
Ala Ala Gln Glu Val Met Lys Ala Cys Ser Gly Lys Phe Met Pro Ile		
	485	490 495
Met Gln Trp Leu Tyr Phe Asp Ala Leu Glu Cys Leu Pro Glu Asp Lys		
	500	505 510
Glu Val Leu Thr Glu Asp Lys Cys Leu Gln Arg Gln Asn Arg Tyr Asp		
	515	520 525
Gly Gln Val Ala Val Phe Gly Ser Asp Leu Gln Glu Lys Leu Gly Lys		
	530	535 540
Gln Lys Tyr Phe Leu Val Gly Ala Gly Ala Ile Gly Cys Glu Leu Leu		
545	550	555 560
Lys Asn Phe Ala Met Ile Gly Leu Gly Cys Gly Glu Gly Gly Glu Ile		
	565	570 575
Ile Val Thr Asp Met Asp Thr Ile Glu Lys Ser Asn Leu Asn Arg Gln		
	580	585 590
Phe Leu Phe Arg Pro Trp Asp Val Thr Lys Leu Lys Ser Asp Thr Ala		
	595	600 605
Ala Ala Ala Val Arg Gln Met Asn Pro His Ile Arg Val Thr Ser His		
	610	615 620
Gln Asn Arg Val Gly Pro Asp Thr Glu Arg Ile Tyr Asp Asp Asp Phe		
625	630	635 640
Phe Gln Asn Leu Asp Gly Val Ala Asn Ala Leu Asp Asn Val Asp Ala		
	645	650 655
Arg Met Tyr Met Asp Arg Arg Cys Val Tyr Tyr Arg Lys Pro Leu Leu		
	660	665 670
Glu Ser Gly Thr Leu Gly Thr Lys Gly Asn Val Gln Val Val Ile Pro		
	675	680 685
Phe Leu Thr Glu Ser Tyr Ser Ser Ser Gln Asp Pro Pro Glu Lys Ser		
	690	695 700
Ile Pro Ile Cys Thr Leu Lys Asn Phe Pro Asn Ala Ile Glu His Thr		
705	710	715 720
Leu Gln Trp Ala Arg Asp Glu Phe Glu Gly Leu Phe Lys Gln Pro Ala		
	725	730 735
Glu Asn Val Asn Gln Tyr Leu Thr Asp Pro Lys Phe Val Glu Arg Thr		
	740	745 750
Leu Arg Leu Ala Gly Thr Gln Pro Leu Glu Val Leu Glu Ala Val Gln		

755					760					765					
Arg	Ser	Leu	Val	Leu	Gln	Arg	Pro	Gln	Thr	Trp	Ala	Asp	Cys	Val	Thr
770						775					780				
Trp	Ala	Cys	His	His	Trp	His	Thr	Gln	Tyr	Ser	Asn	Asn	Ile	Arg	Gln
785					790					795					800
Leu	Leu	His	Asn	Phe	Pro	Pro	Asp	Gln	Leu	Thr	Ser	Ser	Gly	Ala	Pro
				805					810					815	
Phe	Trp	Ser	Gly	Pro	Lys	Arg	Cys	Pro	His	Pro	Leu	Thr	Phe	Asp	Val
			820					825					830		
Asn	Asn	Pro	Leu	His	Leu	Asp	Tyr	Val	Met	Ala	Ala	Ala	Asn	Leu	Phe
		835					840					845			
Ala	Gln	Thr	Tyr	Gly	Leu	Thr	Gly	Ser	Gln	Asp	Arg	Ala	Ala	Val	Ala
	850					855					860				
Thr	Phe	Leu	Gln	Ser	Val	Gln	Val	Pro	Glu	Phe	Thr	Pro	Lys	Ser	Gly
865					870					875					880
Val	Lys	Ile	His	Val	Ser	Asp	Gln	Glu	Leu	Gln	Ser	Ala	Asn	Ala	Ser
				885					890					895	
Val	Asp	Asp	Ser	Arg	Leu	Glu	Glu	Leu	Lys	Ala	Thr	Leu	Pro	Ser	Pro
			900					905					910		
Asp	Lys	Leu	Pro	Gly	Phe	Lys	Met	Tyr	Pro	Ile	Asp	Phe	Glu	Lys	Asp
		915					920					925			
Asp	Asp	Ser	Asn	Phe	His	Met	Asp	Phe	Ile	Val	Ala	Ala	Ser	Asn	Leu
	930					935					940				
Arg	Ala	Glu	Asn	Tyr	Asp	Ile	Pro	Ser	Ala	Asp	Arg	His	Lys	Ser	Lys
945					950					955					960
Leu	Ile	Ala	Gly	Lys	Ile	Ile	Pro	Ala	Ile	Ala	Thr	Thr	Thr	Ala	Ala
				965					970					975	
Val	Val	Gly	Leu	Val	Cys	Leu	Glu	Leu	Tyr	Lys	Val	Val	Gln	Gly	His
			980					985					990		
Arg	Gln	Leu	Asp	Ser	Tyr	Lys	Asn	Gly	Phe	Leu	Asn	Leu	Ala	Leu	Pro
		995					1000					1005			
Phe	Phe	Gly	Phe	Ser	Glu	Pro	Leu	Ala	Ala	Pro	Arg	His	Gln	Tyr	Tyr
	1010					1015					1020				
Asn	Gln	Glu	Trp	Thr	Leu	Trp	Asp	Arg	Phe	Glu	Val	Gln	Gly	Leu	Gln
1025					1030				1035						1040
Pro	Asn	Gly	Glu	Glu	Met	Thr	Leu	Lys	Gln	Phe	Leu	Asp	Tyr	Phe	Lys
				1045					1050					1055	
Thr	Glu	His	Lys	Leu	Glu	Ile	Thr	Met	Leu	Ser	Gln	Gly	Val	Ser	Met

1060	1065	1070
Leu Tyr Ser Phe Phe Met Pro Ala Ala Lys Leu Lys Glu Arg Leu Asp		
1075	1080	1085
Gln Pro Met Thr Glu Ile Val Ser Arg Val Ser Lys Arg Lys Leu Gly		
1090	1095	1100
Arg His Val Arg Ala Leu Val Leu Glu Leu Cys Cys Asn Asp Glu Ser		
1105	1110	1115 1120
Gly Glu Asp Val Glu Val Pro Tyr Val Arg Tyr Thr Ile Arg		
1125	1130	

<210> 1571  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<400> 1571

Met Val Pro Ile Phe Leu Leu Lys Cys Leu Leu Leu His Val Pro Leu
1 5 10 15
Cys Met Ser Ser Asn Leu Ser Phe His Ser Ser His His Leu His Ile
20 25 30
Phe Leu Pro Ser Phe Ser Ser His Leu Pro Arg Pro Leu Tyr Ile Pro
35 40 45
Pro Leu Ser Pro Phe Tyr Ile Phe Ser Ile Ser Pro His Ile Phe Pro
50 55 60
Leu Cys Pro His Leu Cys Ile Pro Pro Asn Phe Pro Ser Ile Tyr Leu
65 70 75 80
Phe Tyr Ser Pro Phe Pro Pro Cys Ile Leu Cys Val Pro Pro Ile Leu
85 90 95
Leu Tyr Ile Ile Leu Pro Lys Ile Phe Thr Ser Pro Ile Leu Ile Ser
100 105 110
Pro Ser Pro Leu Ser Pro Asn Ile Phe Ile Ser Val Pro
115 120 125

<210> 1572  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<400> 1572

Met Val Pro Ile Phe Leu Leu Lys Cys Leu Leu Leu His Val Pro Leu
1 5 10 15

Cys	Met	Ser	Ser	Asn	Leu	Ser	Phe	His	Ser	Ser	His	His	Leu	His	Ile
			20					25					30		
Phe	Leu	Pro	Ser	Phe	Ser	Ser	His	Leu	Pro	Arg	Pro	Leu	Tyr	Ile	Pro
		35					40					45			
Pro	Leu	Ser	Pro	Phe	Tyr	Ile	Phe	Ser	Ile	Ser	Pro	His	Ile	Phe	Pro
	50					55					60				
Leu	Cys	Pro	His	Leu	Cys	Ile	Pro	Pro	Asn	Phe	Pro	Ser	Ile	Tyr	Leu
65					70					75					80
Phe	Tyr	Ser	Pro	Phe	Pro	Pro	Cys	Ile	Leu	Cys	Val	Pro	Pro	Ile	Leu
				85					90					95	
Leu	Tyr	Ile	Ile	Leu	Pro	Lys	Ile	Phe	Thr	Ser	Pro	Ile	Leu	Ile	Ser
			100					105					110		
Pro	Ser	Pro	Leu	Ser	Pro	Asn	Ile	Phe	Ile	Ser	Val	Pro			
		115					120					125			

<210> 1573  
 <211> 124  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (63)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (86)  
 <223> Xaa equals any of the naturally occurring L-amino acids

Met	Val	Val	Ala	Val	Leu	Leu	Gly	Phe	Val	Ala	Met	Val	Leu	Ser	Val
1				5					10					15	
Val	Gly	Met	Lys	Cys	Thr	Arg	Val	Gly	Asp	Ser	Asn	Pro	Ile	Ala	Lys
			20					25					30		
Gly	Arg	Val	Ala	Ile	Ala	Gly	Gly	Ala	Leu	Phe	Ile	Leu	Ala	Gly	Leu
		35					40					45			
Cys	Thr	Leu	Thr	Ala	Val	Ser	Trp	Tyr	Ala	Thr	Leu	Val	Thr	Xaa	Glu
	50					55					60				
Phe	Phe	Asn	Pro	Ser	Thr	Pro	Val	Asn	Ala	Arg	Tyr	Glu	Phe	Gly	Pro
65					70					75					80
Ala	Leu	Phe	Val	Gly	Xaa	Asp	Ser	Ala	Gly	Leu	Ala	Val	Leu	Ser	Gly
			85						90					95	

Ser Phe Leu Cys Cys Thr Cys Pro Glu Pro Glu Arg Pro Asn Ser Ser  
100 105 110

Pro Gln Ala Leu Ser Ala Trp Thr Leu Cys Cys Cys  
115 120

<210> 1574  
<211> 97  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (49)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1574  
Asn Ser Ala Arg Asp Gln Ala Ser Gly Glu Ser Ile His His Arg Thr  
1 5 10 15

Ser Pro Ser Leu Pro Arg Thr Phe Leu Gly Gln Leu His Ser Gly Leu  
20 25 30

Leu His His Leu Pro Cys Asp His Ile Ser His His Val Pro Arg Ser  
35 40 45

Xaa Glu Arg Ser Ser Ala Ser Pro Ser Ser Leu Thr Leu Arg Gly Lys  
50 55 60

Val Thr Glu Thr Lys Ser Asp Glu Met Thr Ala Met Tyr Thr Ala Val  
65 70 75 80

Lys Gly Arg Glu Gly Arg Asn Asp Thr Asn Gly Arg Glu Leu Leu Gly  
85 90 95

Asn

<210> 1575  
<211> 128  
<212> PRT  
<213> Homo sapiens

<400> 1575  
Met Val Val Ala Val Leu Leu Gly Phe Val Ala Met Val Leu Ser Val  
1 5 10 15

Val Gly Met Lys Cys Thr Arg Val Gly Asp Ser Asn Pro Ile Ala Lys  
20 25 30

Gly Arg Val Ala Ile Ala Gly Gly Ala Leu Phe Ile Leu Ala Gly Leu  
35 40 45

Cys	Thr	Leu	Thr	Ala	Val	Ser	Trp	Tyr	Ala	Thr	Leu	Val	Thr	Gln	Glu
50						55					60				
Phe	Phe	Asn	Pro	Ser	Thr	Pro	Val	Asn	Ala	Arg	Tyr	Glu	Phe	Gly	Pro
65					70				75						80
Ala	Leu	Phe	Val	Gly	Trp	Ala	Ser	Ala	Gly	Leu	Ala	Val	Leu	Gly	Gly
				85					90					95	
Ser	Phe	Leu	Cys	Cys	Thr	Cys	Pro	Glu	Pro	Glu	Arg	Pro	Asn	Ser	Ser
			100					105					110		
Pro	Gln	Pro	Tyr	Arg	Pro	Gly	Pro	Ser	Ala	Ala	Ala	Arg	Glu	Tyr	Val
	115					120						125			

<210> 1576  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<400> 1576

Met	Val	Arg	Thr	Arg	Ala	Leu	Phe	Tyr	Ile	Phe	Phe	Gln	Leu	Ser	Leu
1				5					10					15	
Thr	Ser	Gly	Leu	Ile	Glu	Asp	Ser	Cys	Ile	Leu	Ile	Ile	Ile	Tyr	Leu
			20					25					30		
Phe	Phe	Phe	Arg	Trp	Cys	Leu	Ala	Leu	Ser	Pro	Met	Leu	Glu	Cys	Ser
		35					40					45			
Gly	Val	Thr	Leu	Ala	His	Cys	Asn	His	His	Leu	Leu	Gly	Arg	Leu	Arg
	50					55					60				
Gln	Glu	Asn	Arg	Leu	Asn	Leu	Gly	Gly	Gly	Asp	Cys	Ser	Glu	Leu	Arg
	65				70					75					80
Leu	His	His	Cys	Thr	Leu	Ala	Cys	Val	Thr	Ser	Lys	Thr	Leu	Ser	His
				85					90					95	
Thr	His	Thr	Lys												
			100												

<210> 1577  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<400> 1577

Met	Val	Arg	Thr	Arg	Ala	Leu	Phe	Tyr	Ile	Phe	Phe	Gln	Leu	Ser	Leu
1				5					10					15	

Thr Ser Gly Leu Ile Glu Asp Ser Cys Ile Leu Ile Ile Ile Tyr Leu  
                   20                  25                  30  
 Phe Phe Phe Arg Trp Cys Leu Ala Leu Ser Pro Met Leu Glu Cys Ser  
           35                  40                  45  
 Gly Val Thr Leu Ala His Cys Asn His His Leu Leu Gly Arg Leu Arg  
           50                  55                  60  
 Gln Glu Asn Arg Leu Asn Leu Gly Gly Gly Asp Cys Ser Glu Leu Arg  
   65                  70                  75                  80  
 Leu His His Cys Thr Leu Ala Cys Val Thr Ser Lys Thr Leu Ser His  
                   85                  90                  95  
 Thr His Thr Lys  
                   100

<210> 1578  
 <211> 118  
 <212> PRT  
 <213> Homo sapiens

<400> 1578  
 Cys Arg Gly Asp Ile Gln Ile Arg Asp Lys Gly Glu Ala Met Leu Arg  
   1                  5                  10                  15  
 Lys Thr Leu Asp Arg Ala His Phe Thr Pro Pro Asn Arg Tyr Ile Trp  
           20                  25                  30  
 Ile Tyr Pro Phe Ser Ala Ser Ser Phe Ser Thr Ile Lys Asn Val Thr  
           35                  40                  45  
 Ile Leu Asn Ala His Lys Ser His Ser Ser Val Thr Phe Cys Glu Cys  
   50                  55                  60  
 Ser Thr Ile Phe Ser Phe Ser Met Thr Phe Gln Pro Gln Ala Glu Lys  
   65                  70                  75                  80  
 Thr Val Tyr Ser Leu Thr Gln Arg Leu Lys Arg Ile Phe Tyr Tyr Phe  
           85                  90                  95  
 Lys Tyr Tyr Thr Phe Arg Thr Ile Thr Cys Leu Arg Lys Leu Ser Gln  
           100                  105                  110  
 Asn Val Asp Leu Val Lys  
           115

<210> 1579  
 <211> 181  
 <212> PRT  
 <213> Homo sapiens



<220>  
<221> SITE  
<222> (132)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (139)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (168)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (170)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (181)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1579  
Met Asn Leu Ser Thr Ala Leu Leu Phe Leu Asn Leu Leu Phe Leu Leu  
1 5 10 15  
Asp Gly Trp Ile Thr Ser Phe Asn Val Asp Gly Leu Cys Ile Ala Val  
20 25 30  
Ala Val Leu Leu His Phe Phe Leu Leu Ala Thr Phe Thr Trp Met Gly  
35 40 45  
Leu Glu Ala Ile His Met Tyr Ile Ala Leu Val Lys Val Phe Asn Thr  
50 55 60  
Tyr Ile Arg Arg Tyr Ile Leu Lys Phe Cys Ile Ile Gly Trp Gly Leu  
65 70 75 80  
Pro Ala Leu Val Val Ser Val Val Leu Ala Ser Arg Asn Asn Asn Glu  
85 90 95  
Val Tyr Gly Lys Glu Ser Tyr Gly Lys Glu Lys Gly Asp Glu Phe Cys  
100 105 110  
Trp Ile Gln Asp Pro Val Ile Phe Tyr Val Thr Cys Ala Gly Tyr Phe  
115 120 125  
Gly Val Met Xaa Phe Leu Asn Ile Ala Met Xaa Ile Val Val Met Val  
130 135 140  
Gln Ile Cys Gly Arg Asn Gly Lys Arg Ser Asn Arg Thr Leu Arg Glu  
145 150 155 160



Glu	Val	Val	Arg	Asn	Leu	Arg	Xaa	Val	Xaa	Ser	Leu	Thr	Phe	Leu	Val
				165					170					175	

Gly	Met	Thr	Trp	Xaa
			180	

<210> 1580  
 <211> 320  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (168)  
 <223> Xaa equals any of the naturally occurring L-amino acids

Met	Asn	Leu	Ser	Thr	Ala	Leu	Leu	Phe	Leu	Asn	Leu	Leu	Phe	Leu	Leu
1				5				10						15	
Asp	Gly	Trp	Ile	Thr	Ser	Phe	Asn	Val	Asp	Gly	Leu	Cys	Ile	Ala	Val
			20					25					30		
Ala	Val	Leu	Leu	His	Phe	Phe	Leu	Leu	Ala	Thr	Phe	Thr	Trp	Met	Gly
		35					40					45			
Leu	Glu	Ala	Ile	His	Met	Tyr	Ile	Ala	Leu	Val	Lys	Val	Phe	Asn	Thr
	50					55					60				
Tyr	Ile	Arg	Arg	Tyr	Ile	Leu	Lys	Phe	Cys	Ile	Ile	Gly	Trp	Gly	Leu
65					70					75				80	
Pro	Ala	Leu	Val	Val	Ser	Val	Val	Leu	Ala	Ser	Arg	Asn	Asn	Asn	Glu
				85					90					95	
Val	Tyr	Gly	Lys	Glu	Ser	Tyr	Gly	Lys	Glu	Lys	Gly	Asp	Glu	Phe	Cys
		100						105					110		
Trp	Ile	Gln	Asp	Pro	Val	Ile	Phe	Tyr	Val	Thr	Cys	Ala	Gly	Tyr	Phe
		115					120					125			
Gly	Val	Met	Phe	Phe	Leu	Asn	Ile	Ala	Met	Phe	Ile	Val	Val	Met	Val
	130					135					140				
Gln	Ile	Cys	Gly	Arg	Asn	Gly	Lys	Arg	Ser	Asn	Arg	Thr	Leu	Arg	Glu
145					150					155					160
Glu	Val	Leu	Arg	Asn	Leu	Arg	Xaa	Val	Val	Ser	Leu	Thr	Phe	Leu	Leu
				165					170					175	
Gly	Met	Thr	Trp	Gly	Phe	Ala	Phe	Phe	Ala	Trp	Gly	Pro	Leu	Asn	Ile
			180					185					190		
Pro	Phe	Met	Tyr	Leu	Phe	Ser	Ile	Phe	Asn	Ser	Leu	Gln	Gly	Leu	Phe
		195					200					205			

Ile	Phe	Ile	Phe	His	Cys	Ala	Met	Lys	Glu	Asn	Val	Gln	Lys	Gln	Trp
210						215					220				
Arg	Arg	His	Leu	Cys	Cys	Gly	Arg	Phe	Arg	Leu	Ala	Asp	Asn	Ser	Asp
225				230						235					240
Trp	Ser	Lys	Thr	Ala	Thr	Asn	Ile	Ile	Lys	Lys	Ser	Ser	Asp	Asn	Leu
				245					250					255	
Gly	Lys	Ser	Leu	Ser	Ser	Ser	Ser	Ile	Gly	Ser	Asn	Ser	Thr	Tyr	Leu
			260					265					270		
Thr	Ser	Lys	Ser	Lys	Ser	Ser	Ser	Thr	Thr	Tyr	Phe	Lys	Arg	Asn	Ser
		275					280					285			
His	Thr	Asp	Asn	Val	Ser	Tyr	Glu	His	Ser	Phe	Asn	Lys	Ser	Gly	Ser
	290					295					300				
Leu	Arg	Gln	Cys	Phe	His	Gly	Gln	Val	Leu	Val	Lys	Thr	Gly	Pro	Cys
305					310					315					320

<210> 1581  
 <211> 131  
 <212> PRT  
 <213> Homo sapiens

<400> 1581

Asn	Ile	Phe	Leu	Glu	Trp	Ile	Leu	Arg	Arg	Ile	Leu	Ser	Leu	Trp	Arg
1				5					10					15	
Gly	Thr	Phe	Leu	Met	His	Gly	Arg	Ala	Gly	Val	Asn	Arg	Ile	Ser	Tyr
			20					25					30		
Trp	Pro	Ala	Asp	Pro	Glu	Ile	Ser	Leu	Leu	Thr	Glu	Ala	Ser	Ser	Ser
		35					40					45			
Glu	Asp	Ala	Lys	Leu	Asp	Ala	Lys	Ala	Val	Glu	Arg	Leu	Lys	Ser	Asn
	50					55					60				
Ser	Arg	Ala	His	Val	Cys	Val	Leu	Leu	Gln	Pro	Leu	Val	Cys	Tyr	Met
	65				70					75					80
Val	Gln	Phe	Val	Glu	Glu	Thr	Ser	Tyr	Lys	Cys	Asp	Phe	Ile	Gln	Lys
				85					90					95	
Ile	Thr	Lys	Thr	Leu	Pro	Asp	Ala	Asn	Thr	Asp	Phe	Tyr	Tyr	Glu	Cys
			100					105					110		
Lys	Gln	Glu	Arg	Ile	Lys	Glu	Tyr	Glu	Met	Leu	Lys	Lys	Lys	Lys	Lys
	115						120					125			

Lys Lys Thr  
130

<210> 1582  
<211> 87  
<212> PRT  
<213> Homo sapiens

<400> 1582  
Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu  
1 5 10 15  
Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys  
20 25 30  
Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu  
35 40 45  
Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Lys Thr Met Phe Cys  
50 55 60  
Leu Phe Glu Asn Asp Cys Lys Cys Lys Ala Leu Arg Val Met Ile Arg  
65 70 75 80  
Ser Met Ser Arg Ser Val Pro  
85

<210> 1583  
<211> 87  
<212> PRT  
<213> Homo sapiens

<400> 1583  
Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu  
1 5 10 15  
Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys  
20 25 30  
Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu  
35 40 45  
Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Lys Thr Met Phe Cys  
50 55 60  
Leu Phe Glu Asn Asp Cys Lys Cys Lys Ala Leu Arg Val Met Ile Arg  
65 70 75 80  
Ser Met Ser Arg Ser Val Pro  
85

<210> 1584  
<211> 113  
<212> PRT  
<213> Homo sapiens

<400> 1584  
Met Ser Pro Ser Pro Arg Trp Gly Phe Leu Cys Val Leu Phe Thr Ala  
1 5 10 15  
Val His Pro Ala Pro Ser Thr Ala Pro Val Gln Asp Lys Cys Pro Val  
20 25 30  
Asn Thr Trp Glu Ala Met Gln Ala Ser Ser Gln Gln Leu Leu Gln Thr  
35 40 45  
Asp Pro Arg Pro Lys Pro Phe Leu Leu Pro Pro Leu Pro Pro Leu Leu  
50 55 60  
Leu Ile Ser Ala Gly Thr Glu Val Ser Ser Leu Val Phe Gln Lys Ser  
65 70 75 80  
Pro Leu His Thr Gln Pro Glu Gly Ala Ile Lys Thr Ala Gly Gln Pro  
85 90 95  
Thr Ser Val His Ser Lys Val Leu Ser Lys Gly Ser Leu Leu Leu Gly  
100 105 110  
Glu

<210> 1585  
<211> 94  
<212> PRT  
<213> Homo sapiens

<400> 1585  
Met Pro His Ser Ser Leu Tyr Pro Pro Pro Phe Phe Lys Met Lys Leu  
1 5 10 15  
Ile Ile Arg Val Trp Phe Ile Ile Ser Leu Phe Phe Val Gln Gly Arg  
20 25 30  
Thr Asn Pro Cys Ile Leu Leu Pro Tyr Thr His Pro Gln Val Ala Leu  
35 40 45  
His Leu Leu Phe Cys Ala Leu Leu Phe Ser Asp Ala Leu Gly Lys Ala  
50 55 60  
Thr Ser Val Met Thr Tyr Thr Gly Phe Phe Thr His Ser Thr His Cys  
65 70 75 80  
Arg Phe His Ile Ser Cys Phe Ser Leu Ser Phe Leu Ile Leu  
85 90

<210> 1586  
<211> 133  
<212> PRT  
<213> Homo sapiens

<400> 1586  
His Gln Ala Ile Lys Pro Gly Tyr Ser Ala Glu Asn Val Ala His Thr  
1 5 10 15  
Asp His Thr Leu Gly Cys Val Thr Ile Val Trp Cys Thr Cys Trp Lys  
20 25 30  
Asn Ser Ser Met Leu Leu Gly Asp Ile Ile Ser Val Gly Asn Met Pro  
35 40 45  
Leu Thr Asp Phe Phe Phe Phe Leu Phe Ala Val Gly Leu Gly Gln Leu  
50 55 60  
Ile Gln Gln Ser Ile Phe Phe Phe Phe Leu Ser Pro Asn Leu Asn Arg  
65 70 75 80  
Ser Lys Met Cys Ser Gly Ile Pro Gly Asn Arg Cys Val Cys Lys Val  
85 90 95  
Lys Asn Arg Leu Phe Arg Asn Ser Leu Phe Arg Tyr Leu His Pro Ala  
100 105 110  
Ser His Val Lys Tyr Leu Ser Leu Lys Gly Leu Arg Cys Thr Ser Phe  
115 120 125  
Ile Ser Tyr Phe Ser  
130

<210> 1587  
<211> 94  
<212> PRT  
<213> Homo sapiens

<400> 1587  
Met Pro His Ser Ser Leu Tyr Pro Pro Pro Phe Phe Lys Met Lys Leu  
1 5 10 15  
Ile Ile Arg Val Trp Phe Ile Ile Ser Leu Phe Phe Val Gln Gly Arg  
20 25 30  
Thr Asn Pro Cys Ile Leu Leu Pro Tyr Thr His Pro Gln Val Ala Leu  
35 40 45  
His Leu Leu Phe Cys Ala Leu Leu Phe Ser Asp Ala Leu Gly Lys Ala  
50 55 60  
Thr Ser Val Met Thr Tyr Thr Gly Phe Phe Thr His Ser Thr His Cys  
65 70 75 80

Arg Phe His Ile Ser Cys Phe Ser Leu Ser Phe Leu Ile Leu  
85 90

<210> 1588  
<211> 215  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (116)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1588  
Met Glu Leu Ser Cys Pro Gly Ser Arg Cys Pro Val Gln Glu Gln Arg  
1 5 10 15

Ala Arg Trp Glu Arg Lys Arg Ala Cys Thr Ala Arg Glu Leu Leu Glu  
20 25 30

Thr Glu Arg Arg Tyr Gln Glu Gln Leu Gly Leu Val Ala Thr Tyr Phe  
35 40 45

Leu Gly Ile Leu Lys Ala Lys Gly Thr Leu Arg Pro Pro Glu Arg Gln  
50 55 60

Ala Leu Phe Gly Ser Trp Glu Leu Ile Tyr Gly Ala Ser Gln Glu Leu  
65 70 75 80

Leu Pro Tyr Leu Glu Gly Gly Cys Trp Gly Gln Gly Leu Glu Gly Phe  
85 90 95

Cys Arg His Leu Glu Leu Tyr Asn Gln Phe Ala Ala Asn Ser Glu Arg  
100 105 110

Ser Gln Thr Xaa Leu Gln Glu Gln Leu Lys Lys Asn Lys Gly Phe Arg  
115 120 125

Lys Phe Val Arg Leu Gln Glu Gly Arg Pro Glu Phe Gly Gly Leu Gln  
130 135 140

Leu Gln Asp Leu Leu Pro Leu Pro Leu Gln Arg Leu Gln Gln Tyr Glu  
145 150 155 160

Asn Leu Val Val Ala Leu Ala Glu Asn Thr Gly Pro Asn Ser Pro Asp  
165 170 175

His Gln Gln Leu Thr Arg Arg Phe Leu Leu Leu Gly Asn Ala Gly Trp  
180 185 190

Arg Leu Pro Leu Leu Tyr Ser Phe Leu Ile Leu Thr Ser Asn Asn Val  
195 200 205

Trp Tyr Asp Pro Ile Phe His  
210 215

<210> 1589  
<211> 69  
<212> PRT  
<213> Homo sapiens

<400> 1589  
Glu Ile Leu Leu Lys Lys Lys Asn Gln Glu Thr Lys Ser Asn Pro Thr  
1 5 10 15  
Lys Pro Gln Met Asn Gln Pro Leu Thr Gln Met Arg Gly Phe Gly Thr  
20 25 30  
Asp Lys Leu Cys Ala Val Ser Met Ala Arg His Leu Ser Arg Leu Gln  
35 40 45  
Leu Cys Lys Cys Gly Tyr Phe Tyr Val Val Tyr Ser Phe Tyr His Leu  
50 55 60  
Phe Phe His Trp Ile  
65

<210> 1590  
<211> 211  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (104)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1590  
Met Ser Gly Met Thr Leu Ser Ser Thr Asp Met Tyr Thr Val Ser Leu  
1 5 10 15  
Leu Leu Cys Leu Xaa Phe Lys Lys Ser Asp Pro Asp Pro Gly Pro Phe  
20 25 30  
Gln Asn Asn Leu Phe His Asn His Gly Thr Gln Ser Gln Ser Cys Met  
35 40 45  
Gly Ser Lys Val Gly Asp Val Ile Pro Gly Ala Ala Arg Leu Ile Ser  
50 55 60  
Glu Thr Ala Gln Arg Val His Thr Ile Gly Gln Lys Gln Lys Asn Asp  
65 70 75 80

Gln	His	Leu	Arg	Arg	Val	Gln	Ala	Leu	Leu	Ser	Gly	Arg	Gln	Ala	Lys
				85					90					95	
Gly	Leu	Thr	Ser	Gly	Arg	Trp	Xaa	Leu	Arg	Gln	Gly	Trp	Leu	Leu	Val
			100					105					110		
Val	Pro	Pro	His	Gly	Glu	Pro	Arg	Pro	Arg	Met	Phe	Phe	Leu	Phe	Thr
			115				120					125			
Asp	Val	Leu	Leu	Met	Ala	Lys	Pro	Arg	Pro	Pro	Leu	His	Leu	Leu	Arg
	130					135					140				
Ser	Gly	Thr	Phe	Ala	Cys	Lys	Ala	Leu	Tyr	Pro	Met	Ala	Gln	Cys	His
145					150					155					160
Leu	Ser	Arg	Val	Phe	Gly	His	Ser	Gly	Gly	Pro	Cys	Gly	Gly	Leu	Leu
				165					170					175	
Ser	Leu	Ser	Phe	Pro	Arg	Glu	Lys	Leu	Leu	Leu	Met	Ser	Thr	Asp	Gln
			180					185					190		
Glu	Glu	Leu	Ser	Arg	Trp	Tyr	His	Ser	Leu	Thr	Trp	Ala	Ile	Ser	Ser
		195					200					205			
Gln	Lys	Asn													
	210														

<210> 1591  
 <211> 349  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (183)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (191)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (192)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (334)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (344)



<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (345)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (348)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1591

Met	Phe	Leu	Asp	Arg	Pro	Gln	Gln	Trp	Leu	Gln	Leu	Val	Leu	Leu	Pro
1				5					10					15	

Pro	Ala	Leu	Phe	Ile	Pro	Ser	Thr	Glu	Asn	Glu	Glu	Gln	Arg	Leu	Ala
		20						25					30		

Ser	Ala	Arg	Ala	Val	Pro	Arg	Asn	Val	Gln	Pro	Tyr	Val	Val	Tyr	Glu
		35					40					45			

Glu	Val	Thr	Asn	Val	Trp	Ile	Asn	Val	His	Asp	Ile	Phe	Tyr	Pro	Phe
	50					55					60				

Pro	Gln	Ser	Glu	Gly	Glu	Asp	Glu	Leu	Cys	Phe	Leu	Arg	Ala	Asn	Glu
65					70					75					80

Cys	Lys	Thr	Gly	Phe	Cys	His	Leu	Tyr	Lys	Val	Thr	Ala	Val	Leu	Lys
				85					90					95	

Ser	Gln	Gly	Tyr	Asp	Trp	Ser	Glu	Pro	Phe	Ser	Pro	Gly	Glu	Asp	Glu
			100					105					110		

Phe	Lys	Cys	Pro	Ile	Lys	Glu	Glu	Ile	Ala	Leu	Thr	Ser	Gly	Glu	Trp
		115					120						125		

Glu	Val	Leu	Ala	Arg	His	Gly	Ser	Lys	Ile	Trp	Val	Asn	Glu	Glu	Thr
	130					135					140				

Lys	Leu	Val	Tyr	Phe	Gln	Gly	Thr	Lys	Asp	Thr	Pro	Leu	Glu	His	His
145					150					155					160

Leu	Tyr	Val	Val	Ser	Tyr	Glu	Ala	Ala	Gly	Glu	Ile	Val	Arg	Leu	Thr
				165					170					175	

Thr	Pro	Gly	Phe	Ser	His	Xaa	Cys	Ser	Met	Ser	Gln	Asn	Phe	Xaa	Xaa
			180					185					190		

Phe	Val	Ser	His	Ile	Thr	Ala	Gln	Val	Ala	Ala	Ala	Ser	Ala	Gly	Asn
		195					200						205		

Gln	Ala	Gly	Gly	Thr	Glu	Trp	Pro	Ala	Gly	Pro	Ser	Glu	Ala	Leu	Cys
	210					215					220				

Pro	Ala	Gln	Arg	Trp	Pro	Ala	Pro	Arg	Ser	Arg	Cys	Leu	His	Arg	Pro
225					230					235					240

Asp	Ala	Phe	Tyr	Pro	Phe	Leu	Asn	Ala	Leu	Gly	Phe	Tyr	Val	Arg	Cys
				245					250					255	
Phe	Leu	Val	Ala	Glu	Thr	Glu	Arg	Trp	Trp	Ser	Arg	Ala	Ser	Pro	Ser
			260					265					270		
Ser	Pro	Arg	Leu	Leu	Gly	Gly	Gly	Gly	His	Thr	Leu	Met	Gly	Thr	Gly
		275					280					285			
Glu	Ala	Arg	Arg	Asp	Ser	Glu	Glu	Arg	Ala	Ala	Phe	Arg	Leu	Gly	Leu
	290					295					300				
Pro	Val	Thr	Ser	Gln	Ser	Pro	Gly	Pro	Ala	Ser	His	Arg	Pro	Gln	His
305				310					315					320	
Pro	Ser	Met	Gln	Leu	Pro	Val	Pro	Pro	Gly	Gln	Pro	Pro	Xaa	Leu	Asp
			325						330					335	
Val	Cys	Val	Leu	Phe	Gly	Gly	Xaa	Xaa	Phe	Ile	Xaa	Ile			
			340				345								

<210> 1592  
 <211> 144  
 <212> PRT  
 <213> Homo sapiens

<400> 1592															
Ala	Pro	Phe	Leu	Pro	Lys	Pro	Glu	Gln	Arg	Val	Met	Arg	Ala	Pro	Gln
1				5					10					15	
Glu	Lys	Arg	Pro	Gly	Pro	Ala	Gly	Gly	Thr	Thr	Cys	Gly	Gln	Pro	Ser
			20					25					30		
Cys	Pro	Gln	Ala	Phe	Arg	Gln	Ala	Leu	Lys	Arg	Thr	Glu	Leu	Pro	Arg
		35					40					45			
Ser	Ala	Gly	Gln	Trp	Arg	Leu	Ser	Pro	Pro	Gln	Pro	Ser	Arg	Pro	Ala
	50					55					60				
Thr	Cys	Val	Cys	Leu	Thr	Arg	Thr	His	Gln	Gly	Phe	Arg	Gly	Trp	Glu
65					70					75					80
Leu	Asn	His	Pro	His	Leu	Arg	Val	Ile	Phe	Pro	Ser	Pro	Leu	Pro	Ser
				85					90					95	
Pro	Pro	Arg	Ala	Leu	Pro	Gly	Ala	Gly	Lys	Lys	Lys	Ser	Lys	Lys	Lys
			100					105					110		
Arg	Lys	Lys	Lys	Lys	Arg	Asn	Lys	Pro	Pro	Leu	His	Ile	Met	Glu	Arg
		115					120					125			
Lys	Tyr	Phe	Cys	Arg	Phe	Leu	Phe	Phe	Tyr	Asn	Tyr	Ala	Trp	Lys	Lys
	130					135					140				

<210> 1593  
<211> 497  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (183)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1593  
Met Phe Leu Asp Arg Pro Gln Gln Trp Leu Gln Leu Val Leu Leu Pro  
1 5 10 15  
Pro Ala Leu Phe Ile Pro Ser Thr Glu Asn Glu Glu Gln Arg Leu Ala  
20 25 30  
Ser Ala Arg Ala Val Pro Arg Asn Val Gln Pro Tyr Val Val Tyr Glu  
35 40 45  
Glu Val Thr Asn Val Trp Ile Asn Val His Asp Ile Phe Tyr Pro Phe  
50 55 60  
Pro Gln Ser Glu Gly Glu Asp Glu Leu Cys Phe Leu Arg Ala Asn Glu  
65 70 75 80  
Cys Lys Thr Gly Phe Cys His Leu Tyr Lys Val Thr Ala Val Leu Lys  
85 90 95  
Ser Gln Gly Tyr Asp Trp Ser Glu Pro Phe Ser Pro Gly Glu Asp Glu  
100 105 110  
Phe Lys Cys Pro Ile Lys Glu Glu Ile Ala Leu Thr Ser Gly Glu Trp  
115 120 125  
Glu Val Leu Ala Arg His Gly Ser Lys Ile Trp Val Asn Glu Glu Thr  
130 135 140  
Lys Leu Val Tyr Phe Gln Gly Thr Lys Asp Thr Pro Leu Glu His His  
145 150 155 160  
Leu Tyr Val Val Ser Tyr Glu Ala Ala Gly Glu Ile Val Arg Leu Thr  
165 170 175  
Thr Pro Gly Phe Ser His Xaa Cys Ser Met Ser Gln Asn Phe Asp Met  
180 185 190  
Phe Val Ser His Tyr Ser Ser Val Ser Thr Pro Pro Cys Val His Val  
195 200 205  
Tyr Lys Leu Ser Gly Pro Asp Asp Asp Pro Leu His Lys Gln Pro Arg  
210 215 220

Phe	Trp	Ala	Ser	Met	Met	Glu	Ala	Ala	Ser	Cys	Pro	Pro	Asp	Tyr	Val	225	230	235	240
Pro	Pro	Glu	Ile	Phe	His	Phe	His	Thr	Arg	Ser	Asp	Val	Arg	Leu	Tyr	245	250	255	
Gly	Met	Ile	Tyr	Lys	Pro	His	Ala	Leu	Gln	Pro	Gly	Lys	Lys	His	Pro	260	265	270	
Thr	Val	Leu	Phe	Val	Tyr	Gly	Gly	Pro	Gln	Val	Gln	Leu	Val	Asn	Asn	275	280	285	
Ser	Phe	Lys	Gly	Ile	Lys	Tyr	Leu	Arg	Leu	Asn	Thr	Leu	Ala	Ser	Leu	290	295	300	
Gly	Tyr	Ala	Val	Val	Val	Ile	Asp	Gly	Arg	Gly	Ser	Cys	Gln	Arg	Gly	305	310	315	320
Leu	Arg	Phe	Glu	Gly	Ala	Leu	Lys	Asn	Gln	Met	Gly	Gln	Val	Glu	Ile	325	330	335	
Glu	Asp	Gln	Val	Glu	Gly	Leu	Gln	Phe	Val	Ala	Glu	Lys	Tyr	Gly	Phe	340	345	350	
Ile	Asp	Leu	Ser	Arg	Val	Ala	Ile	His	Gly	Trp	Ser	Tyr	Gly	Gly	Phe	355	360	365	
Leu	Ser	Leu	Met	Gly	Leu	Ile	His	Lys	Pro	Gln	Val	Phe	Lys	Val	Ala	370	375	380	
Ile	Ala	Gly	Ala	Pro	Val	Thr	Val	Trp	Met	Ala	Tyr	Asp	Thr	Gly	Tyr	385	390	395	400
Thr	Glu	Arg	Tyr	Met	Asp	Val	Pro	Glu	Asn	Asn	Gln	His	Gly	Tyr	Glu	405	410	415	
Ala	Gly	Ser	Val	Ala	Leu	His	Val	Glu	Lys	Leu	Pro	Asn	Glu	Pro	Asn	420	425	430	
Arg	Leu	Leu	Ile	Leu	His	Gly	Phe	Leu	Asp	Glu	Asn	Val	His	Phe	Phe	435	440	445	
His	Thr	Asn	Phe	Leu	Val	Ser	Gln	Leu	Ile	Arg	Ala	Gly	Lys	Pro	Tyr	450	455	460	
Gln	Leu	Gln	Ile	Tyr	Pro	Asn	Glu	Arg	His	Ser	Ile	Arg	Cys	Pro	Glu	465	470	475	480
Ser	Gly	Glu	His	Tyr	Glu	Val	Thr	Leu	Leu	His	Phe	Leu	Gln	Glu	Tyr	485	490	495	

Leu

<210> 1594  
 <211> 497  
 <212> PRT  
 <213> Homo sapiens

<400> 1594  
 Met Phe Leu Asp Arg Pro Gln Gln Trp Leu Gln Leu Val Leu Leu Pro  
 1 5 10 15  
 Pro Ala Leu Phe Ile Pro Ser Thr Glu Asn Glu Glu Gln Arg Leu Ala  
 20 25 30  
 Ser Ala Arg Ala Val Pro Arg Asn Val Gln Pro Tyr Val Val Tyr Glu  
 35 40 45  
 Glu Val Thr Asn Val Trp Ile Asn Val His Asp Ile Phe Tyr Pro Phe  
 50 55 60  
 Pro Gln Ser Glu Gly Glu Asp Glu Leu Cys Phe Leu Arg Ala Asn Glu  
 65 70 75 80  
 Cys Lys Thr Gly Phe Cys His Leu Tyr Lys Val Thr Ala Val Leu Lys  
 85 90 95  
 Ser Gln Gly Tyr Asp Trp Ser Glu Pro Phe Ser Pro Gly Glu Asp Glu  
 100 105 110  
 Phe Lys Cys Pro Ile Lys Glu Glu Ile Ala Leu Thr Ser Gly Glu Trp  
 115 120 125  
 Glu Val Leu Ala Arg His Gly Ser Lys Ile Trp Val Asn Glu Glu Thr  
 130 135 140  
 Lys Leu Val Tyr Phe Gln Gly Thr Lys Asp Thr Pro Leu Glu His His  
 145 150 155 160  
 Leu Tyr Val Val Ser Tyr Glu Ala Ala Gly Glu Ile Val Arg Leu Thr  
 165 170 175  
 Thr Pro Gly Phe Ser His Ser Cys Ser Met Ser Gln Asn Phe Asp Met  
 180 185 190  
 Phe Val Ser His Tyr Ser Ser Val Ser Thr Pro Pro Cys Val His Val  
 195 200 205  
 Tyr Lys Leu Ser Gly Pro Asp Asp Asp Pro Leu His Lys Gln Pro Arg  
 210 215 220  
 Phe Trp Ala Ser Met Met Glu Ala Ala Ser Cys Pro Pro Asp Tyr Val  
 225 230 235 240  
 Pro Pro Glu Ile Phe His Phe His Thr Arg Ser Asp Val Arg Leu Tyr  
 245 250 255  
 Gly Met Ile Tyr Lys Pro His Ala Leu Gln Pro Gly Lys Lys His Pro  
 260 265 270

Thr	Val	Leu	Phe	Val	Tyr	Gly	Gly	Pro	Gln	Val	Gln	Leu	Val	Asn	Asn				
		275					280					285							
Ser	Phe	Lys	Gly	Ile	Lys	Tyr	Leu	Arg	Leu	Asn	Thr	Leu	Ala	Ser	Leu				
		290				295					300								
Gly	Tyr	Ala	Val	Val	Val	Ile	Asp	Gly	Arg	Gly	Ser	Cys	Gln	Arg	Gly				
305					310					315					320				
Leu	Arg	Phe	Glu	Gly	Ala	Leu	Lys	Asn	Gln	Met	Gly	Gln	Val	Glu	Ile				
				325					330					335					
Glu	Asp	Gln	Val	Glu	Gly	Leu	Gln	Phe	Val	Ala	Glu	Lys	Tyr	Gly	Phe				
			340					345					350						
Ile	Asp	Leu	Ser	Arg	Val	Ala	Ile	His	Gly	Trp	Ser	Tyr	Gly	Gly	Phe				
		355					360					365							
Leu	Ser	Leu	Met	Gly	Leu	Ile	His	Lys	Pro	Gln	Val	Phe	Lys	Val	Ala				
		370				375					380								
Ile	Ala	Gly	Ala	Pro	Val	Thr	Val	Trp	Met	Ala	Tyr	Asp	Thr	Gly	Tyr				
385					390					395					400				
Thr	Glu	Arg	Tyr	Met	Asp	Val	Pro	Glu	Asn	Asn	Gln	His	Gly	Tyr	Glu				
				405					410					415					
Ala	Gly	Ser	Val	Ala	Leu	His	Val	Glu	Lys	Leu	Pro	Asn	Glu	Pro	Asn				
			420					425					430						
Arg	Leu	Leu	Ile	Leu	His	Gly	Phe	Leu	Asp	Glu	Asn	Val	His	Phe	Phe				
		435				440						445							
His	Thr	Asn	Phe	Leu	Val	Ser	Gln	Leu	Ile	Arg	Ala	Gly	Lys	Pro	Tyr				
		450				455					460								
Gln	Leu	Gln	Ile	Tyr	Pro	Asn	Glu	Arg	His	Ser	Ile	Arg	Cys	Pro	Glu				
465					470					475					480				
Ser	Gly	Glu	His	Tyr	Glu	Val	Thr	Leu	Leu	His	Phe	Leu	Gln	Glu	Tyr				
				485				490						495					

Leu

<210> 1595  
 <211> 180  
 <212> PRT  
 <213> Homo sapiens

<400> 1595  
 Met Thr Ser Val Ser Gln Ala Ser Leu Asp Val Ser Met Ile Ile Ile  
 1 5 10 15  
 Ile Ser Leu Gly Ala Ile Cys Ala Val Leu Leu Val Ile Met Val Leu

	20		25		30										
Phe	Ala	Thr	Arg	Cys	Asn	Arg	Glu	Lys	Lys	Asp	Thr	Arg	Ser	Tyr	Asn
	35						40					45			
Cys	Arg	Val	Ala	Glu	Ser	Thr	Tyr	Gln	His	His	Pro	Lys	Arg	Pro	Ser
	50					55					60				
Arg	Gln	Ile	His	Lys	Gly	Asp	Ile	Thr	Leu	Val	Pro	Thr	Ile	Asn	Gly
65					70					75					80
Thr	Leu	Pro	Ile	Arg	Ser	His	His	Arg	Ser	Ser	Pro	Ser	Ser	Ser	Pro
				85					90					95	
Thr	Leu	Glu	Arg	Gly	Gln	Met	Gly	Ser	Arg	Gln	Ser	His	Asn	Ser	His
			100				105						110		
Gln	Ser	Leu	Asn	Ser	Leu	Val	Thr	Ile	Ser	Ser	Asn	His	Val	Pro	Glu
	115						120					125			
Asn	Phe	Ser	Leu	Glu	Leu	Thr	His	Ala	Thr	Pro	Ala	Val	Glu	Arg	Leu
	130					135					140				
Ser	Ala	Ser	Phe	Asn	Ala	Ser	Pro	Gly	Ala	Ile	Ser	Ala	Lys	Thr	Lys
145					150					155					160
Phe	Ser	Arg	Lys	Gln	Ile	Phe	Gln	Glu	Leu	Gln	Ile	Cys	Pro	Ser	Arg
				165					170					175	
His	Gly	Gln	Ile												
			180												

<210> 1596  
 <211> 240  
 <212> PRT  
 <213> Homo sapiens

<400> 1596															
Met	Thr	Ser	Val	Ser	Gln	Ala	Ser	Leu	Asp	Val	Ser	Met	Ile	Ile	Ile
1				5					10					15	
Ile	Ser	Leu	Gly	Ala	Ile	Cys	Ala	Val	Leu	Leu	Val	Ile	Met	Val	Leu
			20					25					30		
Phe	Ala	Thr	Arg	Cys	Asn	Arg	Glu	Lys	Lys	Asp	Thr	Arg	Ser	Tyr	Asn
	35						40					45			
Cys	Arg	Val	Ala	Glu	Ser	Thr	Tyr	Gln	His	His	Pro	Lys	Arg	Pro	Ser
	50					55					60				
Arg	Gln	Ile	His	Lys	Gly	Asp	Ile	Thr	Leu	Val	Pro	Thr	Ile	Asn	Gly
65					70					75					80
Thr	Leu	Pro	Ile	Arg	Ser	His	His	Arg	Ser	Ser	Pro	Ser	Ser	Ser	Pro
				85					90					95	



Thr	Leu	Glu	Arg	Gly	Gln	Met	Gly	Ser	Arg	Gln	Ser	His	Asn	Ser	His
			100					105					110		
Gln	Ser	Leu	Asn	Ser	Leu	Val	Thr	Ile	Ser	Ser	Asn	His	Val	Pro	Glu
		115					120					125			
Asn	Phe	Ser	Leu	Glu	Leu	Thr	His	Ala	Thr	Pro	Ala	Val	Glu	Val	Ser
	130					135					140				
Gln	Leu	Leu	Ser	Met	Leu	His	Gln	Gly	Gln	Tyr	Gln	Pro	Arg	Pro	Ser
145					150					155					160
Phe	Arg	Gly	Asn	Lys	Tyr	Ser	Arg	Ser	Tyr	Arg	Tyr	Ala	Leu	Gln	Asp
				165					170					175	
Met	Asp	Lys	Phe	Ser	Leu	Lys	Asp	Ser	Gly	Arg	Gly	Asp	Ser	Glu	Ala
			180					185					190		
Gly	Asp	Ser	Asp	Tyr	Asp	Leu	Gly	Arg	Asp	Ser	Pro	Ile	Asp	Arg	Leu
		195					200					205			
Leu	Gly	Glu	Gly	Phe	Ser	Asp	Leu	Phe	Leu	Thr	Asp	Gly	Arg	Ile	Pro
	210					215					220				
Ala	Ser	Tyr	Glu	Thr	Leu	His	Gly	Gly	Val	Gln	Gly	Pro	Gly	Thr	Leu
225					230					235					240

<210> 1597  
 <211> 447  
 <212> PRT  
 <213> Homo sapiens

<400> 1597

Met	Thr	Ser	Val	Ser	Gln	Ala	Ser	Leu	Asp	Val	Ser	Met	Ile	Ile	Ile
1				5					10					15	
Ile	Ser	Leu	Gly	Ala	Ile	Cys	Ala	Val	Leu	Leu	Val	Ile	Met	Val	Leu
			20					25					30		
Phe	Ala	Thr	Arg	Cys	Asn	Arg	Glu	Lys	Lys	Asp	Thr	Arg	Ser	Tyr	Asn
		35					40					45			
Cys	Arg	Val	Ala	Glu	Ser	Thr	Tyr	Gln	His	His	Pro	Lys	Arg	Pro	Ser
	50					55					60				
Arg	Gln	Ile	His	Lys	Gly	Asp	Ile	Thr	Leu	Val	Pro	Thr	Ile	Asn	Gly
65					70					75					80
Thr	Leu	Pro	Ile	Arg	Ser	His	His	Arg	Ser	Ser	Pro	Ser	Ser	Ser	Pro
				85					90					95	



Thr	Leu	Glu	Arg	Gly	Gln	Met	Gly	Ser	Arg	Gln	Ser	His	Asn	Ser	His		
			100					105					110				
Gln	Ser	Leu	Asn	Ser	Leu	Val	Thr	Ile	Ser	Ser	Asn	His	Val	Pro	Glu		
		115					120					125					
Asn	Phe	Ser	Leu	Glu	Leu	Thr	His	Ala	Thr	Pro	Ala	Val	Glu	Val	Ser		
	130					135					140						
Gln	Leu	Leu	Ser	Met	Leu	His	Gln	Gly	Gln	Tyr	Gln	Pro	Arg	Pro	Ser		
145					150					155					160		
Phe	Arg	Gly	Asn	Lys	Tyr	Ser	Arg	Ser	Tyr	Arg	Tyr	Ala	Leu	Gln	Asp		
				165					170					175			
Met	Asp	Lys	Phe	Ser	Leu	Lys	Asp	Ser	Gly	Arg	Gly	Asp	Ser	Glu	Ala		
			180					185					190				
Gly	Asp	Ser	Asp	Tyr	Asp	Leu	Gly	Arg	Asp	Ser	Pro	Ile	Asp	Arg	Leu		
		195					200					205					
Leu	Gly	Glu	Gly	Phe	Ser	Asp	Leu	Phe	Leu	Thr	Asp	Gly	Arg	Ile	Pro		
	210					215					220						
Ala	Ala	Met	Arg	Leu	Cys	Thr	Glu	Glu	Cys	Arg	Val	Leu	Gly	His	Ser		
225					230				235						240		
Asp	Gln	Cys	Trp	Met	Pro	Pro	Leu	Pro	Ser	Pro	Ser	Ser	Asp	Tyr	Arg		
				245					250					255			
Ser	Asn	Met	Phe	Ile	Pro	Gly	Glu	Glu	Phe	Pro	Thr	Gln	Pro	Gln	Gln		
			260					265					270				
Gln	His	Pro	His	Gln	Ser	Leu	Glu	Asp	Asp	Ala	Gln	Pro	Ala	Asp	Ser		
		275					280					285					
Gly	Glu	Lys	Lys	Lys	Ser	Phe	Ser	Thr	Phe	Gly	Lys	Asp	Ser	Pro	Asn		
	290					295					300						
Asp	Glu	Asp	Thr	Gly	Asp	Thr	Ser	Thr	Ser	Ser	Leu	Leu	Ser	Glu	Met		
305					310					315					320		
Ser	Ser	Val	Phe	Gln	Arg	Leu	Leu	Pro	Pro	Ser	Leu	Asp	Thr	Tyr	Ser		
				325					330					335			
Glu	Cys	Ser	Glu	Val	Asp	Arg	Ser	Asn	Ser	Leu	Glu	Arg	Arg	Lys	Gly		
			340					345					350				
Pro	Leu	Pro	Ala	Lys	Thr	Val	Gly	Tyr	Pro	Gln	Gly	Val	Ala	Ala	Trp		
		355					360					365					
Ala	Ala	Ser	Thr	His	Phe	Gln	Asn	Pro	Thr	Thr	Asn	Cys	Gly	Pro	Pro		
						375					380						
Leu	Gly	Thr	His	Ser	Ser	Val	Gln	Pro	Ser	Ser	Lys	Trp	Leu	Pro	Ala		
385					390					395					400		

Met	Glu	Glu	Ile	Pro	Glu	Asn	Tyr	Glu	Glu	Asp	Asp	Phe	Asp	Asn	Val
				405					410					415	
Leu	Asn	His	Leu	Asn	Asp	Gly	Lys	His	Glu	Leu	Met	Asp	Ala	Ser	Glu
			420					425					430		
Leu	Val	Ala	Glu	Ile	Asn	Lys	Leu	Leu	Gln	Asp	Val	Arg	Gln	Ser	
		435					440					445			

<210> 1598  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

Met	Thr	Ser	Tyr	Ile	Leu	Ile	Ser	Phe	Val	Leu	Leu	Ile	Gly	Val	Gly
1				5					10					15	
Cys	Ile	Glu	Lys	Asp	Gln	Ser	Cys	Pro	Val	Phe	Gly	Gly	Arg	Lys	Arg
			20					25					30		
Leu	His	Leu	Leu	Phe	Val	Gly	Gly	Gln	Leu	Arg	Gln	Val	Xaa	Leu	Gly
		35					40					45			
Ala	Pro	Arg	Pro	Pro	Gly	Gly	Gln	Asp	Pro	Ser	His	Gln	Arg	Leu	Gly
	50					55					60				
Arg	Gly	Glu	Leu	Pro	Leu	Val	Arg	Gln	His	His	Arg	Asp	Leu	His	His
	65				70				75					80	
Arg	Gly	Pro	His	Gln	Glu	Gly	Leu	Gln	Val	His	His	Gln	His	Glu	
			85					90						95	

<210> 1599  
 <211> 152  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

Xaa	Pro	Ser	Trp	Trp	Gly	Pro	Arg	Trp	Cys	Arg	Ser	Ser	Cys	Gly	Val
1				5					10					15	
Ala	Arg	Thr	Arg	Val	Val	His	Pro	Val	Arg	Val	Ala	Asp	Gly	Leu	Asp

	20		25		30										
Leu	Ala	Leu	Leu	Glu	Val	Gly	Glu	Leu	Pro	Ala	Gly	His	Ala	Leu	Leu
	35						40					45			
Ala	Val	Leu	Val	Val	Glu	Leu	His	Val	Ala	Ala	Arg	Leu	Asp	Pro	Ala
	50					55					60				
Asn	Tyr	Pro	Ser	Leu	Leu	Leu	Gly	Asp	Gly	Arg	His	Asp	His	Leu	Gly
65					70					75					80
Arg	Gly	Pro	Glu	Val	Gly	Cys	Pro	Val	Ala	Glu	His	His	Ala	Gly	Gly
				85					90					95	
Leu	Ile	Asp	Ala	Ser	Gly	Asp	Gly	Val	Asp	Gly	Gly	Phe	His	Ile	Asn
			100					105					110		
His	Arg	Asp	Pro	Phe	Pro	Glu	Asp	Ser	Gly	Phe	Ala	Ser	Asp	Ala	Leu
		115					120					125			
Asn	Thr	Ala	His	Gly	Ile	Gln	Glu	Arg	Ser	Asp	Leu	Gln	Gly	Arg	Pro
	130					135					140				
Ala	Val	Thr	Glu	Lys	Thr	Arg	His								
145					150										

<210> 1600  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 1600															
Met	Arg	Thr	Trp	Ala	Ser	Leu	Ala	Leu	Gly	Leu	Thr	Arg	Ala	Leu	Gly
1				5					10					15	
Gly	Met	Gly	Ser	Phe	Leu	Leu	Arg	Ile	Leu	Gly	Trp	Ser	Trp	Ala	Met
			20					25					30		
Gly	Ser	Arg	Ser	Arg	Ala	Arg	Trp	Pro	Arg	Gly	Arg	Leu	Gly	Phe	Thr
		35					40					45			
Ser	Met	Leu	Ser	Cys	Met	Arg	Gln	Cys	Ser	Val	Cys	Arg	Met	Ile	Met
	50					55					60				
Ser	Leu	Val	Glu	Val	Leu	Val	Ala	Thr	Ser	Gln	Val	Val	Lys	Leu	Trp
65					70					75				80	
Ser	Arg														

<210> 1601  
 <211> 306  
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (208)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (210)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (211)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (218)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (219)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1601

Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala  
1 5 10 15

Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu  
20 25 30

Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val  
35 40 45

Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser  
 50 55 60  
 Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala  
 65 70 75 80  
 Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp  
 85 90 95  
 Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser  
 100 105 110  
 Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val  
 115 120 125  
 Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile  
 130 135 140  
 Gln Trp Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln Val Gly  
 145 150 155 160  
 Leu Phe Leu Asp Ala Val Arg Phe Trp Arg Xaa Arg Leu Ser Ser His  
 165 170 175  
 Ile Gly Ala Xaa Ser Xaa Lys Glu Thr Leu Asp Xaa Leu Tyr Ala Arg  
 180 185 190  
 Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala Val Xaa  
 195 200 205  
 Leu Xaa Xaa Ile Asp Phe Arg Asp Gly Xaa Xaa Leu Leu Arg Gln Ser  
 210 215 220  
 Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile His Pro  
 225 230 235 240  
 Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro Glu Lys  
 245 250 255  
 Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His Gln Gln  
 260 265 270  
 Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp Met Pro  
 275 280 285  
 Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser Ile Lys  
 290 295 300  
 Glu Lys  
 305

<210> 1602

<211> 92

<212> PRT

<213> Homo sapiens

<400> 1602

Met Glu Asp Arg Leu Leu Leu Ile Leu Val Phe Pro Leu Leu Trp Phe  
1 5 10 15

Pro Val Ala Val Phe Gln Leu Val Leu Leu Leu Pro Phe Leu Leu Ile  
20 25 30

His Ser Leu Asn Cys Leu Glu Trp Arg His Leu Phe Ser Ala Tyr Arg  
35 40 45

Val His Ile Leu Ala Trp Leu Ala Tyr Pro Cys Phe Cys Val Ser Leu  
50 55 60

Arg Val Arg His Cys Ile Glu Leu Phe Ile Gln Ile Val Leu Ser Leu  
65 70 75 80

Pro Gln Cys Cys Gly Ile Gly Gly Val Pro Ile Leu  
85 90

<210> 1603

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1603

Met Pro Thr Ser Ile Leu Leu Thr Trp His Leu Leu Thr Trp His Leu  
1 5 10 15

Leu Gly Cys His Lys Thr Asp Lys Ser Phe His Val Arg Leu Asp Thr  
20 25 30

Cys Gln Gly Gly Val Ser Lys Leu Gly His Arg Gln His Pro Arg Pro  
35 40 45

Gly His Trp Val Glu Glu Thr Val Leu Gly Xaa Thr Arg Arg Glu Gly  
50 55 60

Pro Gly Leu Phe Pro  
65

<210> 1604

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1604

Met Pro Thr Ser Ile Leu Leu Thr Trp His Leu Leu Thr Trp His Leu

1                      5                      10                      15  
 Leu Gly Cys His Lys Thr Asp Lys Ser Phe His Val Arg Leu Asp Thr  
                          20                                      25                                      30  
 Cys Gln Gly Gly Val Ser Lys Leu Gly His Arg Gln His Pro Arg Pro  
                          35                                      40                                      45  
 Gly His Trp Val Glu Glu Thr Val Leu Gly Arg Ser Arg Arg Glu Gly  
                          50                                      55                                      60  
 Pro Gly Leu Phe Pro  
 65

<210> 1605  
 <211> 76  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (74)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1605  
 Met Ile Trp Arg Ser Arg Ala Gly Ala Glu Leu Phe Ser Leu Met Ala  
   1                                      5                                      10                                      15  
 Leu Trp Glu Trp Ile Ala Leu Ser Leu His Cys Trp Val Leu Ala Val  
                          20                                      25                                      30  
 Ala Ala Val Ser Asp Gln His Ala Thr Ser Pro Phe Asp Trp Leu Leu  
                          35                                      40                                      45  
 Ser Asp Lys Gly Pro Phe His Arg Ser Gln Glu Tyr Thr Asp Phe Val  
                          50                                      55                                      60  
 Asp Arg Xaa Arg Gln Gly Phe Ser Thr Xaa Tyr Lys  
   65                                      70                                      75

<210> 1606  
 <211> 201  
 <212> PRT  
 <213> Homo sapiens

<400> 1606  
 Met Val Ala Met Val Glu Val Gln Leu Asp Ala Asp His Asp Tyr Pro  
   1                                      5                                      10                                      15

Pro Gly Leu Leu Ile Ala Phe Ser Ala Cys Thr Thr Val Leu Val Ala  
                   20                  25                  30  
 Val His Leu Phe Ala Leu Met Ile Ser Thr Cys Ile Leu Pro Asn Ile  
                   35                  40                  45  
 Glu Ala Val Ser Asn Val His Asn Leu Asn Ser Val Lys Glu Ser Pro  
                   50                  55                  60  
 His Glu Arg Met His Arg His Ile Glu Leu Ala Trp Ala Phe Ser Thr  
                   65                  70                  75                  80  
 Val Ile Gly Thr Leu Leu Phe Leu Ala Glu Val Val Leu Leu Cys Trp  
                   85                  90                  95  
 Val Lys Phe Leu Pro Leu Lys Lys Gln Pro Gly Gln Pro Arg Pro Thr  
                   100                  105                  110  
 Ser Lys Pro Pro Ala Ser Gly Ala Ala Ala Asn Val Ser Thr Ser Gly  
                   115                  120                  125  
 Ile Thr Pro Gly Gln Ala Ala Ala Ile Ala Ser Thr Thr Ile Met Val  
                   130                  135                  140  
 Pro Phe Gly Leu Ile Phe Ile Val Phe Ala Val His Phe Tyr Arg Ser  
                   145                  150                  155                  160  
 Leu Val Ser His Lys Thr Asp Arg Gln Phe Gln Glu Leu Asn Glu Leu  
                   165                  170                  175  
 Ala Glu Phe Ala Arg Leu Gln Asp Gln Leu Asp His Arg Gly Asp His  
                   180                  185                  190  
 Pro Leu Thr Pro Gly Ser His Tyr Ala  
                   195                  200

<210> 1607  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 1607  
 Met Ser Ala Cys Thr Ala Thr Ser Ser Trp Pro Gly Pro Ser Pro Pro  
   1                  5                  10                  15  
 Ser Ser Ala Arg Cys Ser Ser  
                   20

<210> 1608  
 <211> 219  
 <212> PRT  
 <213> Homo sapiens



<220>

<221> SITE

<222> (205)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (212)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1608

Tyr	Phe	Ser	Val	Gly	Gln	Arg	Gln	Cys	Trp	Ile	Ser	Phe	Thr	Leu	Thr
1				5					10					15	

Ala	Gln	Asn	Ser	Ile	Cys	Cys	Leu	Pro	Cys	Asn	Leu	Arg	Thr	Asn	Thr
			20					25					30		

His	Leu	Leu	Tyr	Asn	Pro	Arg	Arg	Gly	Asp	Ile	Lys	Leu	Thr	Gln	Leu
		35					40					45			

Ala	Met	Leu	Leu	Ala	Glu	Ile	Ser	Ser	Val	Ala	His	Gln	Lys	Asp	Gly
	50					55					60				

Ser	Phe	Cys	Pro	Ile	Val	Met	Cys	Gly	Asp	Phe	Asn	Ser	Val	Pro	Gly
65					70					75					80

Ser	Pro	Leu	Tyr	Ser	Phe	Ile	Lys	Glu	Gly	Lys	Leu	Asn	Tyr	Glu	Gly
				85					90					95	

Leu	Pro	Ile	Gly	Lys	Val	Ser	Gly	Gln	Glu	Gln	Ser	Ser	Arg	Gly	Gln
			100					105						110	

Arg	Ile	Leu	Ser	Ile	Pro	Ile	Trp	Pro	Pro	Asn	Leu	Gly	Ile	Ser	Gln
		115					120					125			

Asn	Cys	Val	Tyr	Glu	Val	Gln	Gln	Val	Pro	Lys	Val	Glu	Lys	Thr	Asp
	130					135					140				

Ser	Asp	Leu	Thr	Gln	Thr	Gln	Leu	Lys	Gln	Thr	Glu	Val	Leu	Val	Thr
145					150					155					160

Ala	Glu	Lys	Leu	Ser	Ser	Asn	Leu	Gln	His	His	Phe	Ser	Leu	Ser	Ser
				165					170					175	

Val	Tyr	Ser	His	Tyr	Phe	Pro	Asp	Thr	Gly	Ile	Pro	Glu	Val	Thr	Thr
			180					185					190		

Cys	His	Ser	Arg	Ser	Ala	Ile	Thr	Val	Asp	Tyr	Ile	Xaa	Leu	Leu	Cys
		195					200					205			

Arg	Lys	Gly	Xaa	Cys	Cys	Trp	Ala	Pro	Arg	Ser
	210					215				

<210> 1609

<211> 267  
<212> PRT  
<213> Homo sapiens

<400> 1609

Met	Leu	Ile	Ala	Val	Gly	Ile	His	Leu	Leu	Leu	Leu	Met	Phe	Glu	Val
1				5				10						15	
Leu	Val	Cys	Asp	Arg	Val	Glu	Arg	Gly	Thr	His	Phe	Trp	Leu	Leu	Val
			20					25					30		
Phe	Met	Pro	Leu	Phe	Phe	Val	Ser	Pro	Val	Ser	Val	Ala	Ala	Cys	Val
			35				40					45			
Trp	Gly	Phe	Arg	His	Asp	Arg	Ser	Leu	Glu	Leu	Glu	Ile	Leu	Cys	Ser
	50					55					60				
Val	Asn	Ile	Leu	Gln	Phe	Ile	Phe	Ile	Ala	Leu	Lys	Leu	Asp	Arg	Ile
65					70				75						80
Ile	His	Trp	Pro	Trp	Leu	Val	Val	Phe	Val	Pro	Leu	Trp	Ile	Leu	Met
				85					90					95	
Ser	Phe	Leu	Cys	Leu	Val	Val	Leu	Tyr	Tyr	Ile	Val	Trp	Ser	Leu	Leu
			100					105					110		
Phe	Leu	Arg	Ser	Leu	Asp	Val	Val	Ala	Glu	Gln	Arg	Arg	Thr	His	Val
			115				120					125			
Thr	Met	Ala	Ile	Ser	Trp	Ile	Thr	Ile	Val	Val	Pro	Leu	Leu	Thr	Phe
	130					135					140				
Glu	Val	Leu	Leu	Val	His	Arg	Leu	Asp	Gly	His	Asn	Thr	Phe	Ser	Tyr
145					150					155					160
Val	Ser	Ile	Phe	Val	Pro	Leu	Trp	Leu	Ser	Leu	Leu	Thr	Leu	Met	Ala
				165					170					175	
Thr	Thr	Phe	Arg	Arg	Lys	Gly	Gly	Asn	His	Trp	Trp	Phe	Gly	Ile	Arg
			180					185					190		
Arg	Asp	Phe	Cys	Gln	Phe	Leu	Leu	Glu	Ile	Phe	Pro	Phe	Leu	Arg	Glu
			195				200					205			
Tyr	Gly	Asn	Ile	Ser	Tyr	Asp	Leu	His	His	Glu	Asp	Ser	Glu	Asp	Ala
	210					215					220				
Glu	Glu	Thr	Ser	Val	Pro	Glu	Ala	Pro	Lys	Ile	Ala	Pro	Ile	Phe	Gly
225					230					235					240
Lys	Lys	Ala	Arg	Val	Val	Ile	Thr	Gln	Ser	Pro	Gly	Lys	Tyr	Val	Pro
				245					250					255	
Pro	Pro	Pro	Lys	Leu	Asn	Ile	Asp	Met	Pro	Asp					
			260					265							

<210> 1610  
<211> 123  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (92)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (93)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (108)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (117)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (122)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1610  
Met Ile Thr Thr Ala Gly Lys Val Val Val Thr Ile Leu Leu Gly Ser  
1 5 10 15  
Ser Gly Met Met Leu Pro Ser Leu Thr Ser Ser Val Tyr Phe Phe Val  
20 25 30  
Phe Leu Gly Leu Cys Thr Trp Trp Ser Trp Cys Arg Thr Phe Asp Pro  
35 40 45  
Leu Leu Phe Ser Cys Leu Cys Val Leu Leu Ala Ile Phe Thr Ala Gly  
50 55 60  
His Leu Ile Gly Leu Tyr Leu Tyr Gln Phe Gln Phe Phe Gln Glu Ala  
65 70 75 80  
Val Pro Pro Asn Asp Tyr Tyr Ala Ser Phe Gly Xaa Xaa Glu Glu Phe  
85 90 95  
Phe Tyr Ser Thr Gly Thr Glu Leu Ile Ile Pro Xaa Arg Leu Leu Gln  
100 105 110  
Ala His His Asn Xaa Thr Tyr Lys Gln Xaa Tyr  
115 120

<210> 1611  
<211> 52  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (37)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1611  
Pro Gly Leu Arg Lys Asn Arg Pro Ser Val Pro Arg Arg Ser Ser Pro  
1 5 10 15  
Gly Arg Ile Ser Gly Leu Ser Ser Val Ala Trp Asn Pro Asp His Ser  
20 25 30  
Ile Ser Val Phe Xaa Leu Ala Glu Leu Thr Ser Arg Ala Gln Leu Ala  
35 40 45  
Val Gly Val Ser  
50

<210> 1612  
<211> 125  
<212> PRT  
<213> Homo sapiens

<400> 1612  
Met Phe Arg Arg Leu Ala Ser Val Ala Ser Lys Leu Lys Glu Phe Ile  
1 5 10 15  
Gly Asn Met Ile Thr Thr Ala Gly Lys Val Val Val Thr Ile Leu Leu  
20 25 30  
Gly Ser Ser Gly Met Met Leu Pro Ser Leu Thr Ser Ser Val Tyr Phe  
35 40 45  
Phe Val Phe Leu Gly Leu Cys Thr Trp Trp Ser Trp Cys Arg Thr Phe  
50 55 60  
Asp Pro Leu Leu Phe Ser Cys Leu Cys Val Leu Leu Ala Ile Phe Thr  
65 70 75 80  
Ala Gly His Leu Ile Gly Leu Tyr Leu Tyr Gln Phe Gln Phe Phe Gln  
85 90 95  
Glu Ala Val Pro Pro Asn Asp Tyr Tyr Ala Ser Phe Gly Gln Ser Glu  
100 105 110  
Glu Phe Phe Tyr Ser Thr Gly Thr Glu Leu Ile Ile Pro  
115 120 125

<210> 1613  
<211> 107  
<212> PRT  
<213> Homo sapiens

<400> 1613  
Met Ile Thr Thr Ala Gly Lys Val Val Val Thr Ile Leu Leu Gly Ser  
1 5 10 15  
Ser Gly Met Met Leu Pro Ser Leu Thr Ser Ser Val Tyr Phe Phe Val  
20 25 30  
Phe Leu Gly Leu Cys Thr Trp Trp Ser Trp Cys Arg Thr Phe Asp Pro  
35 40 45  
Leu Leu Phe Ser Cys Leu Cys Val Leu Leu Ala Ile Phe Thr Ala Gly  
50 55 60  
His Leu Ile Gly Leu Tyr Leu Tyr Gln Phe Gln Phe Phe Gln Glu Ala  
65 70 75 80  
Val Pro Pro Asn Asp Tyr Tyr Ala Ser Phe Gly Gln Ser Glu Glu Phe  
85 90 95  
Phe Tyr Ser Thr Gly Thr Glu Leu Ile Ile Pro  
100 105

<210> 1614  
<211> 115  
<212> PRT  
<213> Homo sapiens

<400> 1614  
Met Ala Val Ala Val Leu Leu Cys Gly Cys Ile Val Ala Thr Val Ser  
1 5 10 15  
Phe Phe Trp Glu Glu Ser Leu Thr Gln His Val Ala Gly Leu Leu Phe  
20 25 30  
Leu Met Thr Gly Ile Phe Cys Thr Ile Ser Leu Cys Thr Tyr Ala Ala  
35 40 45  
Ser Ile Ser Tyr Asp Leu Asn Arg Leu Pro Lys Leu Ile Tyr Ser Leu  
50 55 60  
Pro Ala Asp Val Glu His Gly Tyr Ser Trp Ser Ile Phe Cys Ala Trp  
65 70 75 80  
Cys Ser Leu Gly Phe Ile Val Ala Ala Gly Gly Leu Cys Ile Ala Tyr  
85 90 95  
Pro Phe Ile Ser Arg Thr Lys Ile Ala Gln Leu Lys Ser Gly Arg Asp  
100 105 110

Ser Thr Val  
115

<210> 1615  
<211> 182  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (88)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (119)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (120)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (149)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (151)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (154)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1615  
Met Val Ile Tyr Val Thr Leu Ala Leu Trp Pro Gln Ile Ile Gln Lys  
1 5 10 15  
Lys Ala Asn Gly Asn Cys Phe Trp His Phe Gly Leu Leu Leu Lys Leu  
20 25 30  
Gly Phe Leu Leu Leu Phe Ile Cys Phe Leu Ala Tyr Ser Gln Gly Ala  
35 40 45  
Phe Glu Lys Ile Phe Ser Leu Trp Pro Leu Ser Lys Cys Phe Glu Leu  
50 55 60  
Lys Gly Asn Val Tyr Glu Trp Trp Phe Arg Trp Arg Leu Asp Arg Tyr  
65 70 75 80  
Val Val Phe His Gly Met Leu Xaa Ala Phe Ile Tyr Leu Ala Leu Gln

	85		90		95
Lys Arg Gln Ile Leu Ser Glu Gly Lys Gly Glu Pro Leu Phe Ser Asn					
	100		105		110
Lys Ile Ser Asn Phe Leu Xaa Xaa Ile Ser Val Val Ser Phe Leu Thr					
	115		120		125
Tyr Ser Ile Trp Ala Ser Ser Cys Lys Asn Lys Ala Glu Cys Asn Glu					
	130		135		140
Leu His Pro Ser Xaa Ser Xaa Val Gln Xaa Leu Ala Phe Ile Leu Ile					
	145		150		155
					160
Arg Asn Ile Pro Gly Tyr Ala Arg Gln Phe Thr Val His Phe Leu Leu					
	165		170		175
Gly Leu Glu Lys Phe His					
	180				

<210> 1616  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1616  
 Ile Trp Ala Ile Asp Val Phe Ala Phe Cys Leu Ile Phe Phe Tyr Lys  
 1 5 10 15  
 Xaa Xaa Val Arg Gly Ile His Leu Phe Ile Cys Cys Thr Asp Leu Ile  
 20 25 30  
 Met Ile Leu Met Phe Glu Arg Leu His Leu Phe Ala Phe Thr Ile Cys  
 35 40 45  
 Gly Val Lys Tyr Ile Phe Cys Ser Gln Tyr Met Lys Ile Trp Ser Asn  
 50 55 60  
 Leu Asn Ser Lys Gln Thr Phe Cys Gly Cys Leu Phe Leu Tyr Trp Gln  
 65 70 75 80  
 Ser Ile Asn

<210> 1617  
<211> 182  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (119)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (120)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (149)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (151)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (154)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1617  
Met Val Ile Tyr Val Thr Leu Ala Leu Trp Pro Gln Ile Ile Gln Lys  
1 5 10 15  
Lys Ala Asn Gly Asn Cys Phe Trp His Phe Gly Leu Leu Leu Lys Leu  
20 25 30  
Gly Phe Leu Leu Leu Phe Ile Cys Phe Leu Ala Tyr Ser Gln Gly Ala  
35 40 45  
Phe Glu Lys Ile Phe Ser Leu Trp Pro Leu Ser Lys Cys Phe Glu Leu  
50 55 60  
Lys Gly Asn Val Tyr Glu Trp Trp Phe Arg Trp Arg Leu Asp Arg Tyr  
65 70 75 80  
Val Val Phe His Gly Met Leu Phe Ala Phe Ile Tyr Leu Ala Leu Gln  
85 90 95  
Lys Arg Gln Ile Leu Ser Glu Gly Lys Gly Glu Pro Leu Phe Ser Asn  
100 105 110  
Lys Ile Ser Asn Phe Leu Xaa Xaa Ile Ser Val Val Ser Phe Leu Thr  
115 120 125  
Tyr Ser Ile Trp Ala Ser Ser Cys Lys Asn Lys Ala Glu Cys Asn Glu



130		135		140
Leu His Pro Ser Xaa Ser Xaa Val Gln Xaa Leu Ala Phe Ile Leu Ile				
145		150		155 160
Arg Asn Ile Pro Gly Tyr Ala Arg Gln Phe Thr Val His Phe Leu Leu				
	165		170	175
Gly Leu Glu Lys Phe His				
	180			

<210> 1618  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<400> 1618
Met Arg Ser Gln His Ile Thr Trp Cys Leu Leu Phe Ser Ser Pro Leu
1 5 10 15
Ala Thr Leu Pro Ala Ala Leu Pro Leu Gly Ala Cys Ala Ala Val Phe
20 25 30
Thr Val Ile Gly Ser Glu Lys Gln Ser Glu Cys Ser Leu Leu Arg Glu
35 40 45
Ser Arg Ala Lys Tyr His Gly Cys Thr His Gly Gln Ile Ser Ser Ser
50 55 60
Leu Lys Gln His Pro Arg Trp Met Tyr Ser His Gln Glu Asp Leu Lys
65 70 75 80
Val Trp Ser Leu Val Glu Lys Lys Gln Lys Gln Cys Met Gly Asp
85 90 95

<210> 1619  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<400> 1619
Met Arg Ser Gln His Ile Thr Trp Cys Leu Leu Phe Ser Ser Pro Leu
1 5 10 15
Ala Thr Leu Pro Ala Ala Leu Pro Leu Gly Ala Cys Ala Ala Val Phe
20 25 30
Thr Val Ile Gly Ser Glu Lys Gln Ser Glu Cys Ser Leu Leu Arg Glu
35 40 45
Ser Arg Ala Lys Tyr His Gly Cys Thr His Gly Gln Ile Ser Ser Ser
50 55 60

Leu Lys Gln His Pro Arg Trp Met Tyr Ser His Gln Glu Asp Leu Lys  
65 70 75 80

Val Trp Ser Leu Val Glu Lys Lys Gln Lys Gln Cys Met Gly Asp  
85 90 95

<210> 1620

<211> 706

<212> PRT

<213> Homo sapiens

<400> 1620

Met Leu His Ala Leu Gln His Pro Cys Ile Val Ala Leu Ile Gly Ile  
1 5 10 15

Ser Ile His Pro Leu Cys Phe Ala Leu Glu Leu Ala Pro Leu Ser Ser  
20 25 30

Leu Asn Thr Val Leu Ser Glu Asn Ala Arg Asp Ser Ser Phe Ile Pro  
35 40 45

Leu Gly His Met Leu Thr Gln Lys Ile Ala Tyr Gln Ile Ala Ser Gly  
50 55 60

Leu Ala Tyr Leu His Lys Lys Asn Ile Ile Phe Cys Asp Leu Lys Ser  
65 70 75 80

Asp Asn Ile Leu Val Trp Ser Leu Asp Val Lys Glu His Ile Asn Ile  
85 90 95

Lys Leu Ser Asp Tyr Gly Ile Ser Arg Gln Ser Phe His Glu Gly Ala  
100 105 110

Leu Gly Val Glu Gly Thr Pro Gly Tyr Gln Ala Pro Glu Ile Arg Pro  
115 120 125

Arg Ile Val Tyr Asp Glu Lys Val Asp Met Phe Ser Tyr Gly Met Val  
130 135 140

Leu Tyr Glu Leu Leu Ser Gly Gln Arg Pro Ala Leu Gly His His Gln  
145 150 155 160

Leu Gln Ile Ala Lys Lys Leu Ser Lys Gly Ile Arg Pro Val Leu Gly  
165 170 175

Gln Pro Glu Glu Val Gln Phe Arg Arg Leu Gln Ala Leu Met Met Glu  
180 185 190

Cys Trp Asp Thr Lys Pro Glu Lys Arg Pro Leu Ala Leu Ser Val Val  
195 200 205

Ser Gln Met Lys Asp Pro Thr Phe Ala Thr Phe Met Tyr Glu Leu Cys  
210 215 220

Cys Gly Lys Gln Thr Ala Phe Phe Ser Ser Gln Gly Gln Glu Tyr Thr

225					230						235				240
Val	Val	Phe	Trp	Asp	Gly	Lys	Glu	Glu	Ser	Arg	Asn	Tyr	Thr	Val	Val
				245					250					255	
Asn	Thr	Glu	Lys	Gly	Leu	Met	Glu	Val	Gln	Arg	Met	Cys	Cys	Pro	Gly
			260					265					270		
Met	Lys	Val	Ser	Cys	Gln	Leu	Gln	Val	Gln	Arg	Ser	Leu	Trp	Thr	Ala
		275					280					285			
Thr	Glu	Asp	Gln	Lys	Ile	Tyr	Ile	Tyr	Thr	Leu	Lys	Gly	Met	Cys	Pro
	290					295					300				
Leu	Asn	Thr	Pro	Gln	Gln	Ala	Leu	Asp	Thr	Pro	Ala	Val	Val	Thr	Cys
305					310					315					320
Phe	Leu	Ala	Val	Pro	Val	Ile	Lys	Lys	Asn	Ser	Tyr	Leu	Val	Leu	Ala
				325					330					335	
Gly	Leu	Ala	Asp	Gly	Leu	Val	Ala	Val	Phe	Pro	Val	Val	Arg	Gly	Thr
			340					345					350		
Pro	Lys	Asp	Ser	Cys	Ser	Tyr	Leu	Cys	Ser	His	Thr	Ala	Asn	Arg	Ser
		355					360					365			
Lys	Phe	Ser	Ile	Ala	Asp	Glu	Asp	Ala	Arg	Gln	Asn	Pro	Tyr	Pro	Val
	370					375					380				
Lys	Ala	Met	Glu	Val	Val	Asn	Ser	Gly	Ser	Glu	Val	Trp	Tyr	Ser	Asn
385					390					395					400
Gly	Pro	Gly	Leu	Leu	Val	Ile	Asp	Cys	Ala	Ser	Leu	Glu	Ile	Cys	Arg
			405						410					415	
Arg	Leu	Glu	Pro	Tyr	Met	Ala	Pro	Ser	Met	Val	Thr	Ser	Val	Val	Cys
			420					425					430		
Ser	Ser	Glu	Gly	Arg	Gly	Glu	Glu	Val	Val	Trp	Cys	Leu	Asp	Asp	Lys
		435					440					445			
Ala	Asn	Ser	Leu	Val	Met	Tyr	His	Ser	Thr	Thr	Tyr	Gln	Leu	Cys	Ala
	450					455					460				
Arg	Tyr	Phe	Cys	Gly	Val	Pro	Ser	Pro	Leu	Arg	Asp	Met	Phe	Pro	Val
465					470					475					480
Arg	Pro	Leu	Asp	Thr	Glu	Pro	Pro	Ala	Ala	Ser	His	Thr	Ala	Asn	Pro
			485						490					495	
Lys	Val	Pro	Glu	Gly	Asp	Ser	Ile	Ala	Asp	Val	Ser	Ile	Met	Tyr	Ser
		500						505					510		
Glu	Glu	Leu	Gly	Thr	Gln	Ile	Leu	Ile	His	Gln	Glu	Ser	Leu	Thr	Asp
		515					520					525			
Tyr	Cys	Ser	Met	Ser	Ser	Tyr	Ser	Ser	Ser	Pro	Pro	Arg	Gln	Ala	Ala

530		535		540
Arg Ser Pro Ser Ser Leu Pro Ser Ser Pro Ala Ser Ser Ser Ser Val				
545		550		555 560
Pro Phe Ser Thr Asp Cys Glu Asp Ser Asp Met Leu His Thr Pro Gly				
		565		570 575
Ala Ala Ser Asp Arg Ser Glu His Asp Leu Thr Pro Met Asp Gly Glu				
		580		585 590
Thr Phe Ser Gln His Leu Gln Ala Val Lys Ile Leu Ala Val Arg Asp				
		595		600 605
Leu Ile Trp Val Pro Arg Arg Gly Gly Asp Val Ile Val Ile Gly Leu				
		610		615 620
Glu Lys Asp Ser Glu Ala Gln Arg Gly Arg Val Ile Ala Val Leu Lys				
		625		630 635 640
Ala Arg Glu Leu Thr Pro His Gly Val Leu Val Asp Ala Ala Val Val				
		645		650 655
Ala Lys Asp Thr Val Val Cys Thr Phe Glu Asn Glu Asn Thr Glu Trp				
		660		665 670
Cys Leu Ala Val Trp Arg Gly Trp Gly Ala Arg Glu Phe Asp Ile Phe				
		675		680 685
Tyr Gln Ser Tyr Glu Glu Leu Gly Arg Leu Glu Ala Cys Thr Arg Lys				
		690		695 700
Arg Arg				
705				

<210> 1621  
 <211> 706  
 <212> PRT  
 <213> Homo sapiens

<400> 1621
Met Leu His Ala Leu Gln His Pro Cys Ile Val Ala Leu Ile Gly Ile
1 5 10 15
Ser Ile His Pro Leu Cys Phe Ala Leu Glu Leu Ala Pro Leu Ser Ser
20 25 30
Leu Asn Thr Val Leu Ser Glu Asn Ala Arg Asp Ser Ser Phe Ile Pro
35 40 45
Leu Gly His Met Leu Thr Gln Lys Ile Ala Tyr Gln Ile Ala Ser Gly
50 55 60
Leu Ala Tyr Leu His Lys Lys Asn Ile Ile Phe Cys Asp Leu Lys Ser
65 70 75 80

Asp	Asn	Ile	Leu	Val	Trp	Ser	Leu	Asp	Val	Lys	Glu	His	Ile	Asn	Ile			
				85					90					95				
Lys	Leu	Ser	Asp	Tyr	Gly	Ile	Ser	Arg	Gln	Ser	Phe	His	Glu	Gly	Ala			
			100					105					110					
Leu	Gly	Val	Glu	Gly	Thr	Pro	Gly	Tyr	Gln	Ala	Pro	Glu	Ile	Arg	Pro			
		115					120					125						
Arg	Ile	Val	Tyr	Asp	Glu	Lys	Val	Asp	Met	Phe	Ser	Tyr	Gly	Met	Val			
	130					135					140							
Leu	Tyr	Glu	Leu	Leu	Ser	Gly	Gln	Arg	Pro	Ala	Leu	Gly	His	His	Gln			
145					150					155					160			
Leu	Gln	Ile	Ala	Lys	Lys	Leu	Ser	Lys	Gly	Ile	Arg	Pro	Val	Leu	Gly			
				165					170					175				
Gln	Pro	Glu	Glu	Val	Gln	Phe	Arg	Arg	Leu	Gln	Ala	Leu	Met	Met	Glu			
			180					185					190					
Cys	Trp	Asp	Thr	Lys	Pro	Glu	Lys	Arg	Pro	Leu	Ala	Leu	Ser	Val	Val			
		195					200					205						
Ser	Gln	Met	Lys	Asp	Pro	Thr	Phe	Ala	Thr	Phe	Met	Tyr	Glu	Leu	Cys			
		210				215					220							
Cys	Gly	Lys	Gln	Thr	Ala	Phe	Phe	Ser	Ser	Gln	Gly	Gln	Glu	Tyr	Thr			
225					230					235					240			
Val	Val	Phe	Trp	Asp	Gly	Lys	Glu	Glu	Ser	Arg	Asn	Tyr	Thr	Val	Val			
				245					250					255				
Asn	Thr	Glu	Lys	Gly	Leu	Met	Glu	Val	Gln	Arg	Met	Cys	Cys	Pro	Gly			
			260					265					270					
Met	Lys	Val	Ser	Cys	Gln	Leu	Gln	Val	Gln	Arg	Ser	Leu	Trp	Thr	Ala			
		275					280					285						
Thr	Glu	Asp	Gln	Lys	Ile	Tyr	Ile	Tyr	Thr	Leu	Lys	Gly	Met	Cys	Pro			
		290				295					300							
Leu	Asn	Thr	Pro	Gln	Gln	Ala	Leu	Asp	Thr	Pro	Ala	Val	Val	Thr	Cys			
305					310				315						320			
Phe	Leu	Ala	Val	Pro	Val	Ile	Lys	Lys	Asn	Ser	Tyr	Leu	Val	Leu	Ala			
				325					330					335				
Gly	Leu	Ala	Asp	Gly	Leu	Val	Ala	Val	Phe	Pro	Val	Val	Arg	Gly	Thr			
			340					345					350					
Pro	Lys	Asp	Ser	Cys	Ser	Tyr	Leu	Cys	Ser	His	Thr	Ala	Asn	Arg	Ser			
		355					360					365						
Lys	Phe	Ser	Ile	Ala	Asp	Glu	Asp	Ala	Arg	Gln	Asn	Pro	Tyr	Pro	Val			
						375					380							

Lys	Ala	Met	Glu	Val	Val	Asn	Ser	Gly	Ser	Glu	Val	Trp	Tyr	Ser	Asn	385	390	395	400
Gly	Pro	Gly	Leu	Leu	Val	Ile	Asp	Cys	Ala	Ser	Leu	Glu	Ile	Cys	Arg		405	410	415
Arg	Leu	Glu	Pro	Tyr	Met	Ala	Pro	Ser	Met	Val	Thr	Ser	Val	Val	Cys		420	425	430
Ser	Ser	Glu	Gly	Arg	Gly	Glu	Glu	Val	Val	Trp	Cys	Leu	Asp	Asp	Lys		435	440	445
Ala	Asn	Ser	Leu	Val	Met	Tyr	His	Ser	Thr	Thr	Tyr	Gln	Leu	Cys	Ala		450	455	460
Arg	Tyr	Phe	Cys	Gly	Val	Pro	Ser	Pro	Leu	Arg	Asp	Met	Phe	Pro	Val	465	470	475	480
Arg	Pro	Leu	Asp	Thr	Glu	Pro	Pro	Ala	Ala	Ser	His	Thr	Ala	Asn	Pro		485	490	495
Lys	Val	Pro	Glu	Gly	Asp	Ser	Ile	Ala	Asp	Val	Ser	Ile	Met	Tyr	Ser		500	505	510
Glu	Glu	Leu	Gly	Thr	Gln	Ile	Leu	Ile	His	Gln	Glu	Ser	Leu	Thr	Asp		515	520	525
Tyr	Cys	Ser	Met	Ser	Ser	Tyr	Ser	Ser	Ser	Pro	Pro	Arg	Gln	Ala	Ala	530	535	540	
Arg	Ser	Pro	Ser	Ser	Leu	Pro	Ser	Ser	Pro	Ala	Ser	Ser	Ser	Ser	Val	545	550	555	560
Pro	Phe	Ser	Thr	Asp	Cys	Glu	Asp	Ser	Asp	Met	Leu	His	Thr	Pro	Gly		565	570	575
Ala	Ala	Ser	Asp	Arg	Ser	Glu	His	Asp	Leu	Thr	Pro	Met	Asp	Gly	Glu		580	585	590
Thr	Phe	Ser	Gln	His	Leu	Gln	Ala	Val	Lys	Ile	Leu	Ala	Val	Arg	Asp		595	600	605
Leu	Ile	Trp	Val	Pro	Arg	Arg	Gly	Gly	Asp	Val	Ile	Val	Ile	Gly	Leu	610	615	620	
Glu	Lys	Asp	Ser	Gly	Ala	Gln	Arg	Gly	Arg	Val	Ile	Ala	Val	Leu	Lys	625	630	635	640
Ala	Arg	Glu	Leu	Thr	Pro	His	Gly	Val	Leu	Val	Asp	Ala	Ala	Val	Val		645	650	655
Ala	Lys	Asp	Thr	Val	Val	Cys	Thr	Phe	Glu	Asn	Glu	Asn	Thr	Glu	Trp		660	665	670
Cys	Leu	Ala	Val	Trp	Arg	Gly	Trp	Gly	Ala	Arg	Glu	Phe	Asp	Ile	Phe		675	680	685

Tyr Gln Ser Tyr Glu Glu Leu Gly Arg Leu Glu Ala Cys Thr Arg Lys  
690 695 700

Arg Arg  
705

<210> 1622  
<211> 196  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (171)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (175)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (177)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (181)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (185)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (188)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (189)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (193)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1622  
Met Ser Leu Leu Val Asp Gly Asp Met Asn Leu Ser Ile Ile Met Thr  
1 5 10 15



Ile Ser Ser Thr Leu Leu Ala Leu Val Leu Met Pro Leu Cys Leu Trp  
20 25 30

Ile Tyr Ser Trp Ala Trp Ile Asn Thr Pro Ile Val Gln Leu Leu Pro  
35 40 45

Leu Gly Thr Val Thr Leu Thr Leu Cys Ser Thr Leu Ile Pro Ile Gly  
50 55 60

Leu Gly Val Phe Ile Arg Tyr Lys Tyr Ser Arg Val Ala Asp Tyr Ile  
65 70 75 80

Val Lys Val Ser Leu Trp Ser Leu Leu Val Thr Leu Val Val Leu Phe  
85 90 95

Ile Met Thr Gly Thr Met Leu Gly Pro Glu Leu Leu Ala Ser Ile Pro  
100 105 110

Ala Ala Val Tyr Val Ile Ala Ile Phe Met Pro Leu Ala Gly Tyr Ala  
115 120 125

Ser Gly Tyr Gly Leu Ala Thr Leu Phe His Leu Pro Pro Asn Cys Lys  
130 135 140

Arg Thr Val Cys Leu Glu Thr Gly Ser Gln Asn Val Gln Leu Cys Thr  
145 150 155 160

Ala Ile Leu Lys Leu Ala Phe His Arg Ile Xaa Arg Lys His Xaa His  
165 170 175

Xaa Ser Phe Ala Xaa Cys Thr Phe Xaa Val Cys Xaa Xaa Gly Asp Phe  
180 185 190

Xaa Phe Asn Leu  
195

<210> 1623  
<211> 69  
<212> PRT  
<213> Homo sapiens

<400> 1623  
Met Asp Phe Asn Leu Gly Leu Pro Gly Ala Gly Pro Pro Arg Leu Leu  
1 5 10 15

Arg Leu Gly Leu Cys Val Leu Ala Leu Ala Cys Phe Arg Cys Leu Thr  
20 25 30

Gly Leu Phe Leu Phe Met Ala Trp Leu His Ser Asp Leu Gly Trp Gly  
35 40 45

His Ile Gln Pro Thr Ala His Trp Leu Ser Val Trp Pro Ala Pro Arg  
50 55 60



Phe Gln Pro Gln Trp  
65

<210> 1624  
<211> 199  
<212> PRT  
<213> Homo sapiens

<400> 1624  
Phe Ser Gly Val Cys Phe Ala Gly Ile Ala Gly Ser Met Ala Thr Leu  
1 5 10 15  
Leu His Asp Ala Val Met Asn Pro Ala Glu Val Val Lys Gln Arg Leu  
20 25 30  
Gln Met Tyr Asn Ser Gln His Arg Ser Ala Ile Ser Cys Ile Arg Thr  
35 40 45  
Val Trp Arg Thr Glu Gly Leu Gly Ala Phe Tyr Arg Ser Tyr Thr Thr  
50 55 60  
Gln Leu Thr Met Asn Ile Pro Phe Gln Ser Ile His Phe Ile Thr Tyr  
65 70 75 80  
Glu Phe Leu Gln Glu Gln Val Asn Pro His Arg Thr Tyr Asn Pro Gln  
85 90 95  
Ser His Ile Ile Ser Gly Gly Leu Ala Gly Ala Leu Ala Ala Ala Ala  
100 105 110  
Thr Thr Pro Leu Asp Val Cys Lys Thr Leu Leu Asn Thr Gln Glu Asn  
115 120 125  
Val Ala Leu Ser Leu Ala Asn Ile Ser Gly Arg Leu Ser Gly Met Ala  
130 135 140  
Asn Ala Phe Arg Thr Val Tyr Gln Leu Asn Gly Leu Ala Gly Tyr Phe  
145 150 155 160  
Lys Gly Ile Gln Ala Arg Val Ile Tyr Gln Met Pro Ser Thr Ala Ile  
165 170 175  
Ser Trp Ser Val Tyr Glu Phe Phe Lys Tyr Phe Leu Thr Lys Arg Gln  
180 185 190  
Leu Glu Asn Arg Ala Pro Tyr  
195

<210> 1625  
<211> 69  
<212> PRT  
<213> Homo sapiens

<400> 1625  
Met Asp Phe Asn Leu Gly Leu Pro Gly Ala Gly Pro Pro Arg Leu Leu  
1 5 10 15  
Arg Leu Gly Leu Cys Val Leu Ala Leu Ala Cys Phe Arg Cys Leu Thr  
20 25 30  
Gly Leu Phe Leu Phe Met Ala Trp Leu His Ser Asp Leu Gly Trp Gly  
35 40 45  
His Ile Gln Pro Thr Ala His Trp Leu Ser Val Trp Pro Ala Pro Arg  
50 55 60  
Phe Gln Pro Gln Trp  
65

<210> 1626  
<211> 91  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (84)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1626  
Met Ala Arg Val Leu Gln Leu Glu Pro Gln Thr Ser Ala Cys Leu Leu  
1 5 10 15  
Ser Leu Leu Cys Pro Ala Leu Gln Glu Pro Gly Pro Ala Ser Gly Thr  
20 25 30  
Glu Ser Ala His Phe Leu Arg Ala His Ser Arg Cys Gly Pro Gly Leu  
35 40 45  
Pro Pro Pro His Val Ser Ser Pro Gln Pro Thr Pro Pro Gly Pro Glu  
50 55 60  
Ala Lys Val Arg Gly Cys Met Gly Ala Arg Trp Trp Leu Gly Arg Ala  
65 70 75 80  
Pro Gly Val Xaa Gly Val Phe Arg Asp Thr Thr  
85 90

<210> 1627  
<211> 137  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1627

Ala	His	Cys	His	Ile	Ser	Arg	Ser	His	Cys	Pro	Thr	Leu	Arg	Xaa	Lys
1				5					10					15	

Asp	Thr	Cys	Gly	Gly	Trp	Glu	Pro	Thr	Ser	Ala	Leu	Gly	Ser	Ser	Thr
			20					25					30		

Leu	Ser	His	Val	Pro	His	Xaa	Leu	Leu	Glu	Arg	Arg	Asp	Leu	Trp	Arg
		35					40					45			

Arg	Glu	Ala	Glu	Ala	Arg	Lys	Gln	Ser	Gln	Pro	Asp	Pro	Ala	Met	Pro
	50					55					60				

Pro	Gly	His	Thr	Arg	Met	Pro	Glu	Asn	Gln	Arg	Leu	Glu	Thr	Leu	Thr
65					70					75					80

Lys	Leu	Leu	Gln	Ser	Gln	Ser	Gln	Leu	Leu	Arg	Glu	Leu	Val	Leu	Leu
				85					90					95	

Pro	Ala	Gly	Ala	Asp	Ser	Leu	Arg	Ala	Gln	Ser	His	Arg	Ala	Glu	Leu
			100					105					110		

Asp	Arg	Lys	Leu	Val	Gln	Val	Glu	Glu	Ala	Ile	Lys	Ile	Phe	Ser	Arg
		115					120					125			

Pro	Lys	Val	Phe	Val	Lys	Met	Asp	Asp
	130					135		

<210> 1628

<211> 95

<212> PRT

<213> Homo sapiens

<400> 1628

Met	Ala	Trp	Ala	Pro	Ala	Cys	Val	Gln	Ala	Gln	Gly	Leu	Ser	Cys	Leu
1				5					10					15	

Cys	Leu	Phe	Pro	Asp	Pro	Ser	Ser	Cys	Arg	Glu	Trp	Cys	Cys	Pro	Leu
			20					25					30		

Gly	Met	Tyr	Leu	Gln	Val	Glu	Thr	Arg	Thr	Ser	Ser	Arg	Leu	His	Leu
		35					40					45			

Lys	Arg	Ala	Pro	Gly	Ile	Arg	Ser	Trp	Ser	Leu	Leu	Val	Gly	Lys	Ala
	50					55					60				

Leu	His	Val	Pro	Pro	Gln	Asn	Pro	Arg	Thr	Gly	Ser	Leu	Thr	Phe	Lys
65					70					75					80

Lys Asp Glu Asn Glu Thr Lys Tyr Phe Leu Phe Phe Leu Leu Pro  
85 90 95

<210> 1629  
<211> 189  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (81)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (163)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1629  
Val Gln Leu Ser Val Pro Ala Gly Met Leu His Ser Leu Cys Val Gln  
1 5 10 15

Leu Phe Ile Thr Ala Gly Ser Leu Cys Ala Thr His Ser Gln Cys Leu  
20 25 30

Ser Lys Ala Asp Gly Ala Arg Pro Ser Ile Leu Tyr Leu Thr Cys Pro  
35 40 45

Leu His Ser Pro Ile Lys Asn Gly Pro Gln Ile Arg Val Glu Glu Ala  
50 55 60

Asp Val Ser Ser Ser Glu Thr Ala Leu Pro Arg Ser Arg Arg Asp Gly  
65 70 75 80

Xaa Ala Lys Pro Gly Cys Glu Thr Gly Cys Cys Met Trp Leu Gln Ala  
85 90 95

Leu Asn Ile Val Thr Trp Arg Leu Pro Gln His Ile Val Arg Ser Lys  
100 105 110

Pro Gln Glu Pro Glu Gln Gln Asn Ser Cys His Pro Gln Lys Pro Ala  
115 120 125

Pro Gly Thr Ala Val Gln Ile Gly Arg Arg Ser Ser Gln Gln Trp Leu  
130 135 140

Leu Arg Thr Pro Leu Thr Gln Gln Arg Ser Pro Asp Ala Cys Arg Ser  
145 150 155 160

Pro Glu Xaa Ala Leu Ser Ala Leu Asp Met Ala Gly Asp Thr Gln Val  
165 170 175

Trp Pro Ser Gln Ser Leu Phe Ala Lys Leu Lys Val Lys  
180 185

<210> 1630  
<211> 95  
<212> PRT  
<213> Homo sapiens

<400> 1630  
Met Ala Trp Ala Pro Ala Cys Val Gln Ala Gln Gly Leu Ser Cys Leu  
1 5 10 15  
Cys Leu Phe Pro Asp Pro Ser Ser Cys Arg Glu Trp Cys Cys Pro Leu  
20 25 30  
Gly Met Tyr Leu Gln Val Glu Thr Arg Thr Ser Ser Arg Leu His Leu  
35 40 45  
Lys Arg Ala Pro Gly Ile Arg Ser Trp Ser Leu Leu Val Gly Lys Ala  
50 55 60  
Leu His Val Pro Pro Gln Asn Pro Arg Thr Gly Ser Leu Thr Phe Lys  
65 70 75 80  
Lys Asp Glu Asn Glu Thr Lys Tyr Phe Leu Phe Phe Leu Leu Pro  
85 90 95

<210> 1631  
<211> 303  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (224)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (245)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (250)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (252)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (255)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (256)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (257)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (287)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (301)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1631

Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Leu  
1 5 10 15

Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala  
20 25 30

Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala  
35 40 45

Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp  
50 55 60

Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp  
65 70 75 80

Gly Thr Leu Ser Leu Ser Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly  
85 90 95

Arg Leu Arg Asp Val Ala Ala Leu Asn Gly Leu Tyr Arg Val Arg Ile  
100 105 110

Pro Arg Arg Pro Gly Ala Leu Asp Gly Leu Glu Ala Gly Gly Tyr Val  
115 120 125

Ser Ser Phe Val Pro Ala Cys Ser Leu Val Glu Ser His Leu Ser Asp  
130 135 140

Gln Leu Thr Leu His Val Asp Val Ala Gly Asn Val Val Gly Val Ser  
145 150 155 160

Val Val Thr His Pro Gly Gly Cys Arg Gly His Glu Val Glu Asp Val  
165 170 175

Asp Leu Glu Leu Phe Asn Thr Ser Val Gln Leu Gln Pro Pro Thr Thr

180						185						190					
Ala	Pro	Gly	Pro	Glu	Thr	Ala	Ala	Phe	Ile	Glu	Arg	Leu	Glu	Met	Glu		
		195					200					205					
Gln	Ala	Gln	Lys	Ala	Lys	Asn	Pro	Gln	Glu	Gln	Lys	Ser	Phe	Phe	Xaa		
	210					215					220						
Lys	Tyr	Trp	Met	Tyr	Ile	Ile	Pro	Val	Val	Leu	Phe	Leu	Met	Met	Ser		
225					230					235					240		
Gly	Ala	Pro	Asp	Xaa	Gly	Gly	Gln	Gly	Xaa	Gly	Xaa	Gly	Gly	Xaa	Xaa		
				245					250					255			
Xaa	Gly	Val	Val	Ala	Gly	Glu	Gly	Pro	Ser	Leu	Ser	Ala	Phe	Pro	Ser		
			260					265					270				
Cys	Lys	Thr	Gln	Gly	Gly	Phe	Pro	Phe	Cys	Leu	Glu	Phe	Pro	Xaa	Cys		
		275					280						285				
Ser	Ser	Ser	Pro	Ser	Pro	Lys	Lys	Gly	Phe	Cys	Leu	Xaa	Pro	Leu			
		290					295				300						

<210> 1632  
 <211> 173  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (99)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (118)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (141)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (164)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (170)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1632

Met	Ala	Ala	Ala	Ser	Ala	Gly	Ala	Thr	Arg	Leu	Leu	Leu	Leu	Leu	Leu
1				5					10					15	

Met	Ala	Val	Ala	Ala	Pro	Ser	Arg	Ala	Arg	Gly	Ser	Gly	Cys	Arg	Ala
			20					25					30		

Gly	Thr	Gly	Ala	Arg	Gly	Ala	Gly	Ala	Glu	Gly	Arg	Glu	Gly	Glu	Ala
		35					40					45			

Cys	Gly	Thr	Val	Gly	Leu	Leu	Leu	Glu	His	Ser	Phe	Glu	Ile	Asp	Asp
	50					55					60				

Ser	Ala	Asn	Phe	Arg	Lys	Arg	Gly	Ser	Leu	Leu	Trp	Asn	Gln	Gln	Asp
65					70					75					80

Gly	Thr	Leu	Ser	Leu	Ser	Gln	Arg	Gln	Leu	Ser	Glu	Glu	Glu	Arg	Gly
				85					90					95	

Arg	Leu	Xaa	Asp	Val	Ala	Ala	Leu	Asn	Gly	Leu	Tyr	Arg	Val	Arg	Ile
			100					105					110		

Pro	Arg	Arg	Pro	Gly	Xaa	Leu	Asp	Gly	Leu	Glu	Ala	Gly	Gly	Tyr	Val
		115					120					125			

Ser	Ser	Phe	Val	Pro	Ala	Cys	Ser	Leu	Val	Glu	Ser	Xaa	Leu	Ser	Asp
	130					135					140				

Gln	Leu	Thr	Leu	His	Val	Asp	Val	Ala	Gly	Asn	Val	Val	Gly	Arg	Val
145					150					155					160

Gly	Gly	Asp	Xaa	Pro	Trp	Gly	Cys	Arg	Xaa	His	Xaa	Xaa			
				165					170						

<210> 1633

<211> 158

<212> PRT

<213> Homo sapiens

<400> 1633

Met	Ala	Ala	Ala	Ser	Ala	Gly	Ala	Thr	Arg	Leu	Leu	Leu	Leu	Leu	Leu
1				5					10					15	

Met	Ala	Val	Ala	Ala	Pro	Ser	Arg	Ala	Arg	Gly	Ser	Gly	Cys	Arg	Ala
			20					25					30		

Gly	Thr	Gly	Ala	Arg	Gly	Ala	Gly	Ala	Glu	Gly	Arg	Glu	Gly	Glu	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



	35		40		45											
Cys	Gly	Thr	Val	Gly	Leu	Leu	Leu	Glu	His	Ser	Phe	Glu	Ile	Asp	Asp	
	50					55					60					
Ser	Ala	Asn	Phe	Arg	Lys	Arg	Gly	Ser	Leu	Leu	Trp	Asn	Gln	Gln	Asp	
	65				70					75					80	
Gly	Thr	Leu	Ser	Leu	Ser	Gln	Arg	Gln	Leu	Ser	Glu	Glu	Glu	Arg	Gly	
				85					90					95		
Arg	Leu	Arg	Asp	Val	Ala	Ala	Ser	Tyr	Leu	Asp	Cys	Gly	Ala	Thr	Arg	
			100					105					110			
Ala	Cys	Gly	Pro	Leu	Leu	Cys	Ala	Thr	Leu	Pro	Val	Ser	Leu	Phe	Lys	
		115					120					125				
Asn	Ile	Asp	Asp	Thr	Leu	Lys	Cys	Val	Asn	Val	Leu	Lys	Ser	Tyr	Ser	
	130					135					140					
Phe	Gln	Gln	Pro	Lys	Ala	Thr	Val	Val	Leu	Ala	Arg	Arg	Ser			
145					150					155						

<210> 1634  
 <211> 158  
 <212> PRT  
 <213> Homo sapiens

<400> 1634																
Met	Ala	Ala	Ala	Ser	Ala	Gly	Ala	Thr	Arg	Leu	Leu	Leu	Leu	Leu	Leu	
1				5					10						15	
Met	Ala	Val	Ala	Ala	Pro	Ser	Arg	Ala	Arg	Gly	Ser	Gly	Cys	Arg	Ala	
			20					25					30			
Gly	Thr	Gly	Ala	Arg	Gly	Ala	Gly	Ala	Glu	Gly	Arg	Glu	Gly	Glu	Ala	
		35					40					45				
Cys	Gly	Thr	Val	Gly	Leu	Leu	Leu	Glu	His	Ser	Phe	Glu	Ile	Asp	Asp	
	50					55					60					
Ser	Ala	Asn	Phe	Arg	Lys	Arg	Gly	Ser	Leu	Leu	Trp	Asn	Gln	Gln	Asp	
	65				70					75					80	
Gly	Thr	Leu	Ser	Leu	Ser	Gln	Arg	Gln	Leu	Ser	Glu	Glu	Glu	Arg	Gly	
				85					90					95		
Arg	Leu	Arg	Asp	Val	Ala	Ala	Ser	Tyr	Leu	Asp	Cys	Gly	Ala	Thr	Arg	
			100					105					110			
Ala	Cys	Gly	Pro	Leu	Leu	Cys	Ala	Thr	Leu	Pro	Val	Ser	Leu	Phe	Lys	
		115					120					125				
Asn	Ile	Asp	Asp	Thr	Leu	Lys	Cys	Val	Asn	Val	Leu	Lys	Ser	Tyr	Ser	
	130					135					140					

Phe Gln Gln Pro Lys Ala Thr Val Val Leu Ala Arg Arg Ser  
145 150 155

<210> 1635  
<211> 115  
<212> PRT  
<213> Homo sapiens

<400> 1635  
Met Arg Ser Arg Lys Ile Pro Gln Gln Ser Arg Phe Phe Thr Pro Leu  
1 5 10 15  
Phe Phe Leu Asn Leu Pro Ile Leu Val Val Pro Leu Pro Ser Thr Asp  
20 25 30  
Thr Ser Cys Ser Asp Phe Gln Tyr Gln Val Phe Lys Thr Ser Tyr Pro  
35 40 45  
Pro Ser Ser Val Pro Pro Ser Leu Gln Ser His Lys His Trp Cys Ser  
50 55 60  
Gln Ile Lys Ile Ser Pro Lys Gln Cys Gln Arg Asp Pro Leu Ser Ser  
65 70 75 80  
Phe Gln Ala Arg Asp Met Phe Ser Phe Gln Val Leu Glu Lys Thr Gly  
85 90 95  
Ser Met Phe Thr Trp Asn Phe Ser Arg Gly Gly Ala Ile Ser Phe Cys  
100 105 110  
Ile Lys Leu  
115

<210> 1636  
<211> 115  
<212> PRT  
<213> Homo sapiens

<400> 1636  
Met Arg Ser Arg Lys Ile Pro Gln Gln Ser Arg Phe Phe Thr Pro Leu  
1 5 10 15  
Phe Phe Leu Asn Leu Pro Ile Leu Val Val Pro Leu Pro Ser Thr Asp  
20 25 30  
Thr Ser Cys Ser Asp Phe Gln Tyr Gln Val Phe Lys Thr Ser Tyr Pro  
35 40 45  
Pro Ser Ser Val Pro Pro Ser Leu Gln Ser His Lys His Trp Cys Ser  
50 55 60  
Gln Ile Lys Ile Ser Pro Lys Gln Cys Gln Arg Asp Pro Leu Ser Ser

65		70		75		80									
Phe	Gln	Ala	Arg	Asp	Met	Phe	Ser	Phe	Gln	Val	Leu	Glu	Lys	Thr	Gly
				85					90					95	
Ser	Met	Phe	Thr	Trp	Asn	Phe	Ser	Arg	Gly	Gly	Ala	Ile	Ser	Phe	Cys
			100					105					110		
Ile	Lys	Leu													
		115													

<210> 1637  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 1637															
Met	Ala	Leu	Gly	Ser	Met	Tyr	Leu	Val	Leu	Thr	Leu	Ile	Val	Ala	Lys
1				5					10					15	
Val	Leu	Arg	Gly	Ala	Glu	Pro	Cys	Cys	Gly	Pro	Leu	Lys	Asn	Arg	Val
			20					25					30		
Leu	Arg	Pro	Cys	Pro	Leu	Pro	Val	His	Cys	Pro	Leu	Pro	Ile	Pro	Ser
		35					40					45			
Pro	Ala	Glu	Gly	Ile	Pro	Trp	Val	Ala	Tyr	Leu	Pro	Ile	Arg	Trp	Phe
	50				55						60				
Ile	Ser	Cys	Cys	Pro	Gly	His	Cys	Ile	Gln	Ile	Pro	Met	Cys	Thr	Ser
65					70				75						80

<210> 1638  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 1638															
Met	Ala	Leu	Gly	Ser	Met	Tyr	Leu	Val	Leu	Thr	Leu	Ile	Val	Ala	Lys
1				5					10					15	
Val	Leu	Arg	Gly	Ala	Glu	Pro	Cys	Cys	Gly	Pro	Leu	Lys	Asn	Arg	Val
			20					25					30		
Leu	Arg	Pro	Cys	Pro	Leu	Pro	Val	His	Cys	Pro	Leu	Pro	Ile	Pro	Ser
		35					40					45			
Pro	Ala	Glu	Gly	Ile	Pro	Trp	Val	Ala	Tyr	Leu	Pro	Ile	Arg	Trp	Phe
	50				55						60				

Ile	Ser	Cys	Cys	Pro	Gly	His	Cys	Ile	Gln	Ile	Pro	Met	Cys	Thr	Ser
65					70					75					80

<210> 1639  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 1639  
 Met Arg Thr Asn Gln Ser Leu Cys Ser Phe Leu Leu Trp Ser Val Pro  
 1 5 10 15  
 Phe His Gln Ala Ala Cys Pro Gln Ala Lys Asp His Pro Leu Glu Pro  
 20 25 30  
 Ser Met His Pro Glu Gly Thr Gln Leu Gln Ser Cys Ser Thr Met Leu  
 35 40 45  
 Gly Pro Arg Gln Leu Ser Ser Glu Lys Gln Pro Leu Leu Pro Pro Arg  
 50 55 60  
 Ser His Leu Lys Ser Ser Pro Met Leu Arg Ala Cys Lys Gly Leu Thr  
 65 70 75 80  
 Ser

<210> 1640  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 1640  
 Met Arg Thr Asn Gln Ser Leu Cys Ser Phe Leu Leu Trp Ser Val Pro  
 1 5 10 15  
 Phe His Gln Ala Ala Cys Pro Gln Ala Lys Asp His Pro Leu Glu Pro  
 20 25 30  
 Ser Met His Pro Glu Gly Thr Gln Leu Gln Ser Cys Ser Thr Met Leu  
 35 40 45  
 Gly Pro Arg Gln Leu Ser Ser Glu Lys Gln Pro Leu Leu Pro Pro Arg  
 50 55 60  
 Ser His Leu Lys Ser Ser Pro Met Leu Arg Ala Cys Lys Gly Leu Thr  
 65 70 75 80  
 Ser

<210> 1641  
<211> 53  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1641  
Met Val Phe Leu Ser His Leu Phe Gly Thr Lys Arg Leu Phe Leu Leu  
1 5 10 15  
Leu Ala Leu Ile Trp Ala Ser Trp His Phe Ser Tyr Met Pro Ala Asp  
20 25 30  
Ala Trp Val Asp Pro Gly Ile Pro Asp Arg Tyr Leu Gln Ala Tyr Leu  
35 40 45  
Ser Ile Val Xaa Pro  
50

<210> 1642  
<211> 61  
<212> PRT  
<213> Homo sapiens

<400> 1642  
Met His Val Val His Trp Ser Arg Leu Phe Leu Leu Lys Pro Pro Tyr  
1 5 10 15  
Ser Val His Ala Thr Phe Ile Pro Thr Gly Phe Leu Ala Arg Phe Arg  
20 25 30  
Thr Pro Gly Ile Leu Asp Ser Cys Phe Phe His Ser Trp Pro Leu Leu  
35 40 45  
Leu Ser Tyr Phe Leu Ser Pro Gln Ser Pro Leu Leu Lys  
50 55 60

<210> 1643  
<211> 86  
<212> PRT  
<213> Homo sapiens

<400> 1643  
Met Leu Thr Ala Val Lys Met Phe Arg Leu Ser Ala Val Thr Leu Cys  
1 5 10 15

Ala	Phe	Ser	Leu	Thr	Leu	His	Ser	Gly	Val	Gln	Leu	Cys	Glu	Gln	Leu
			20					25					30		
Val	Leu	Arg	Ile	Ala	Leu	Phe	Gln	Asn	Cys	Arg	Ala	Glu	Asp	Gly	Phe
		35					40					45			
Gly	Leu	Arg	Val	Cys	Trp	Arg	Arg	Leu	Met	Arg	Ser	Phe	Cys	Arg	Ser
	50					55					60				
Ala	Lys	Phe	Trp	Gly	Ser	Asn	Asp	Leu	Arg	Thr	Trp	Gly	Ser	Arg	Phe
	65				70					75					80
Leu	Trp	Lys	Asp	Cys	Thr										
				85											

<210> 1644  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

Met	Leu	Thr	Ala	Val	Lys	Met	Phe	Arg	Leu	Ser	Ala	Val	Thr	Leu	Cys
1				5					10					15	
Ala	Phe	Ser	Leu	Thr	Leu	His	Ser	Gly	Val	Gln	Leu	Cys	Glu	Gln	Leu
			20					25					30		
Val	Leu	Arg	Ile	Ala	Leu	Phe	Gln	Asn	Cys	Arg	Ala	Glu	Asp	Gly	Phe
		35					40					45			
Gly	Leu	Arg	Val	Cys	Trp	Arg	Arg	Leu	Met	Arg	Ser	Phe	Cys	Arg	Ser
	50					55					60				
Ala	Lys	Phe	Trp	Gly	Ser	Asn	Asp	Leu	Arg	Thr	Trp	Gly	Ser	Arg	Phe
	65				70					75					80
Leu	Trp	Lys	Asp	Cys	Thr										
				85											

<210> 1645  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (116)  
 <223> Xaa equals any of the naturally occurring L-amino acids

Met	Gly	Leu	Leu	Ala	Phe	Leu	Lys	Thr	Gln	Phe	Val	Leu	His	Leu	Leu
1				5					10					15	

Val	Gly	Phe	Val	Phe	Val	Val	Ser	Gly	Leu	Val	Ile	Asn	Phe	Val	Gln
			20					25					30		
Leu	Cys	Thr	Leu	Ala	Leu	Trp	Pro	Val	Ser	Lys	Gln	Leu	Tyr	Arg	Arg
		35					40					45			
Leu	Asn	Cys	Arg	Leu	Ala	Tyr	Ser	Leu	Trp	Ser	Gln	Leu	Val	Met	Leu
	50					55					60				
Leu	Glu	Trp	Trp	Ser	Cys	Thr	Glu	Cys	Thr	Leu	Phe	Thr	Asp	Gln	Ala
65					70				75						80
Thr	Val	Glu	Arg	Phe	Gly	Lys	Glu	His	Ala	Ile	Ile	Ile	Leu	Asn	His
				85					90					95	
Asn	Phe	Glu	Ile	Asp	Phe	Leu	Cys	Gly	Trp	Thr	Met	Cys	Glu	Arg	Phe
		100						105					110		
Gly	Met	Leu	Xaa	Ser	Ser	Lys	Gly	Pro	Arg						
	115						120								

<210> 1646  
 <211> 121  
 <212> PRT  
 <213> Homo sapiens

<400> 1646															
Gly	Asp	Phe	Leu	Trp	Lys	Thr	Ser	Arg	Val	Asp	Glu	Lys	Glu	Ala	Ala
1				5					10					15	
Gln	Trp	Leu	His	Lys	Leu	Tyr	Gln	Glu	Lys	Asp	Ala	Leu	Gln	Glu	Ile
			20					25					30		
Tyr	Asn	Gln	Lys	Gly	Met	Phe	Pro	Gly	Glu	Gln	Phe	Lys	Pro	Ala	Arg
		35					40					45			
Arg	Pro	Trp	Thr	Leu	Leu	Asn	Phe	Leu	Ser	Trp	Ala	Thr	Ile	Leu	Leu
	50					55					60				
Ser	Pro	Leu	Phe	Ser	Phe	Val	Leu	Gly	Val	Phe	Ala	Ser	Gly	Ser	Pro
65					70					75					80
Leu	Leu	Ile	Leu	Thr	Phe	Leu	Gly	Phe	Val	Gly	Ala	Ala	Ser	Phe	Gly
				85					90					95	
Val	Arg	Arg	Leu	Ile	Gly	Val	Thr	Glu	Ile	Glu	Lys	Gly	Ser	Ser	Tyr
			100					105					110		
Gly	Asn	Gln	Glu	Phe	Lys	Lys	Lys	Glu							
	115						120								

<210> 1647  
 <211> 376

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1647

Met	Gly	Leu	Leu	Ala	Phe	Leu	Lys	Thr	Gln	Phe	Val	Leu	His	Leu	Leu
1				5					10					15	

Val	Gly	Phe	Val	Phe	Val	Val	Ser	Gly	Leu	Val	Ile	Asn	Xaa	Val	Gln
			20					25					30		

Leu	Cys	Thr	Leu	Ala	Leu	Trp	Pro	Val	Ser	Lys	Gln	Leu	Tyr	Arg	Arg
		35					40					45			

Leu	Asn	Cys	Arg	Leu	Ala	Tyr	Ser	Leu	Trp	Ser	Gln	Leu	Val	Met	Leu
	50					55					60				

Leu	Glu	Trp	Trp	Ser	Cys	Thr	Glu	Cys	Thr	Leu	Phe	Thr	Asp	Gln	Ala
65					70					75					80

Thr	Val	Glu	Arg	Phe	Gly	Lys	Glu	His	Ala	Val	Ile	Ile	Leu	Asn	His
				85					90					95	

Asn	Phe	Glu	Ile	Asp	Phe	Leu	Cys	Gly	Trp	Thr	Met	Cys	Glu	Arg	Phe
		100						105					110		

Gly	Val	Leu	Gly	Ser	Ser	Lys	Val	Leu	Ala	Lys	Lys	Glu	Leu	Leu	Tyr
		115					120					125			

Val	Pro	Leu	Ile	Gly	Trp	Thr	Trp	Tyr	Phe	Leu	Glu	Ile	Val	Phe	Cys
	130					135					140				

Lys	Arg	Lys	Trp	Glu	Glu	Asp	Arg	Asp	Thr	Val	Val	Glu	Gly	Leu	Arg
145					150					155					160

Arg	Leu	Ser	Asp	Tyr	Pro	Glu	Tyr	Met	Trp	Phe	Leu	Leu	Tyr	Cys	Glu
			165						170					175	

Gly	Thr	Arg	Phe	Thr	Glu	Thr	Lys	His	Arg	Val	Ser	Met	Glu	Val	Ala
			180					185					190		

Ala	Ala	Lys	Gly	Leu	Pro	Val	Leu	Lys	Tyr	His	Leu	Leu	Pro	Arg	Thr
		195					200					205			

Lys	Gly	Phe	Thr	Thr	Ala	Val	Lys	Cys	Leu	Arg	Gly	Thr	Val	Ala	Ala
	210					215					220				

Val	Tyr	Asp	Val	Thr	Leu	Asn	Phe	Arg	Gly	Asn	Lys	Asn	Pro	Ser	Leu
225					230					235					240

Leu	Gly	Ile	Leu	Tyr	Gly	Lys	Lys	Tyr	Glu	Ala	Asp	Met	Cys	Val	Arg
			245						250					255	



Arg Phe Pro Leu Glu Asp Ile Pro Leu Asp Glu Lys Glu Ala Ala Gln  
                   260                  265                  270  
 Trp Leu His Lys Leu Tyr Gln Glu Lys Asp Ala Leu Gln Glu Ile Tyr  
                   275                  280                  285  
 Asn Gln Lys Gly Met Phe Pro Gly Glu Gln Phe Lys Pro Ala Arg Arg  
                   290                  295                  300  
 Pro Trp Thr Leu Leu Asn Phe Leu Ser Trp Ala Thr Ile Leu Leu Ser  
 305                                  310                  315                  320  
 Pro Leu Phe Ser Phe Val Leu Gly Val Phe Ala Ser Gly Ser Pro Leu  
                                   325                  330                  335  
 Leu Ile Leu Thr Phe Leu Gly Phe Val Gly Ala Ala Ser Phe Gly Val  
                                   340                  345                  350  
 Arg Arg Leu Ile Gly Val Thr Glu Ile Glu Lys Gly Ser Ser Tyr Gly  
                   355                  360                  365  
 Asn Gln Glu Phe Lys Lys Lys Glu  
                   370                  375

<210> 1648  
 <211> 164  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (76)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (146)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1648  
 Met Arg Thr Leu Val Glu Leu Gly Pro Trp Ala Gly Asp Phe Gly Pro  
   1                  5                  10                  15  
 Asp Leu Leu Leu Thr Leu Leu Phe Leu Leu Phe Leu Ala His Gly Val  
                   20                  25                  30  
 Thr Leu Asp Gly Ala Ser Ala Asn Pro Thr Val Ser Leu Gln Glu Phe  
                   35                  40                  45  
 Leu Met Ala Glu Gln Ser Leu Pro Gly Thr Leu Leu Lys Leu Ala Ala

50		55		60
Gln Gly Leu Gly Met Gln Ala Ala Cys Thr Leu Xaa Arg Leu Cys Trp				
65		70		80
Ala Trp Glu Leu Ser Asp Leu His Leu Leu Gln Ser Leu Met Ala Gln				
	85		90	95
Ser Cys Ser Ser Ala Leu Arg Thr Ser Val Pro His Gly Ala Leu Xaa				
	100		105	110
Glu Ala Ala Cys Thr Phe Cys Phe His Leu Thr Leu Leu His Leu Arg				
	115		120	125
His Ser Pro Pro Ala Tyr Ser Gly Pro Ala Val Ala Leu Leu Val Thr				
	130		135	140
Val Xaa Ala Tyr Thr Ala Gly Pro Tyr Val Cys Phe Phe Asn Pro Ala				
145		150		155
				160
Leu Ala Ala Leu				

<210> 1649  
 <211> 186  
 <212> PRT  
 <213> Homo sapiens

<400> 1649
Met Arg Thr Leu Val Glu Leu Gly Pro Trp Ala Gly Asp Phe Gly Pro
1 5 10 15
Asp Leu Leu Leu Thr Leu Leu Phe Leu Leu Phe Leu Ala His Gly Val
20 25 30
Thr Leu Asp Gly Ala Ser Ala Asn Pro Thr Val Ser Leu Gln Glu Phe
35 40 45
Leu Met Ala Glu Gln Ser Leu Pro Gly Thr Leu Leu Lys Leu Ala Ala
50 55 60
Gln Gly Leu Gly Met Gln Ala Ala Cys Thr Leu Met Arg Leu Cys Trp
65 70 75 80
Ala Trp Glu Leu Ser Asp Leu His Leu Leu Gln Ser Leu Met Ala Gln
85 90 95
Ser Cys Ser Ser Ala Leu Arg Thr Ser Val Pro His Gly Ala Leu Leu
100 105 110
Glu Ala Ala Cys Thr Phe Cys Phe His Leu Thr Leu Leu His Leu Arg
115 120 125
His Ser Pro Pro Ala Tyr Ser Gly Pro Ala Val Ala Leu Leu Val Thr
130 135 140

Val Thr Ala Tyr Thr Ala Gly Pro Phe Thr Ser Ala Phe Phe Asn Pro  
145 150 155 160

Ala Leu Ala Ala Ser Val Thr Phe Ala Cys Ser Asp Thr Pro Tyr Trp  
165 170 175

Ser Thr Cys Arg Cys Thr Gly Trp Ala Leu  
180 185

<210> 1650  
<211> 206  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (200)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1650  
Met Val Arg Leu Ala Ala Glu Leu Leu Leu Leu Gly Leu Leu Leu  
1 5 10 15

Leu Thr Leu His Ile Thr Val Leu Arg Gly Ser Gly Ala Ala Asp Gly  
20 25 30

Pro Asp Ala Ala Ala Gly Asn Ala Ser Gln Ala Gln Leu Gln Asn Asn  
35 40 45

Leu Asn Val Gly Ser Asp Thr Thr Ser Glu Thr Ser Phe Ser Leu Ser  
50 55 60

Lys Glu Ala Pro Arg Glu His Leu Asp His Gln Ala Ala His Gln Pro  
65 70 75 80

Phe Pro Arg Pro Arg Phe Arg Gln Glu Thr Gly His Pro Ser Leu Gln  
85 90 95

Arg Asp Phe Pro Arg Ser Phe Leu Leu Asp Leu Pro Asn Phe Pro Asp  
100 105 110

Leu Ser Lys Ala Asp Ile Asn Gly Gln Asn Pro Asn Ile Gln Val Thr  
115 120 125

Ile Glu Val Val Asp Gly Pro Asp Ser Glu Ala Asp Lys Asp Gln His  
130 135 140

Pro Glu Asn Lys Pro Ser Trp Ser Val Pro Ser Pro Asp Trp Arg Ala  
145 150 155 160

Trp Trp Gln Arg Ser Leu Ser Leu Ala Arg Ala Asn Ser Gly Asp Gln  
165 170 175

Asp Tyr Gln Tyr Asp Ser Thr Ser Asp Asp Ser Asn Phe Leu Asn Pro

	180		185		190
Pro	Arg	Gly	Trp	Asp	His
	195				Thr
			Xaa	Pro	Gly
			200		His
				Arg	Asp
					205
					Phe

<210> 1651  
 <211> 107  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (52)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1651  
 His Phe Ser Lys Gly Lys Gln Gln Asn Lys Trp Glu Lys Asp Asn Gly  
 1 5 10 15  
 Pro His Phe Thr Tyr Phe Asn Thr Ile Leu Thr Ile Phe Ser Ser Thr  
 20 25 30  
 Asn Ile Ser Pro Ile Asn Lys Tyr Lys Arg Gly Gly Gly Ser Ile Trp  
 35 40 45  
 Gly Ile Leu Xaa Phe Tyr Val Leu Arg Lys Gln Lys Lys Leu His Tyr  
 50 55 60  
 Phe Cys Lys Val Phe Ile Glu Ser Arg Ile Ile Val His Gln Ala Ile  
 65 70 75 80  
 Val Asn Met Thr Trp Ser Tyr Gly Val Glu Leu Arg Lys Asn Lys Val  
 85 90 95  
 Gly Ser Tyr Ser Ile Phe Tyr Phe Ala Lys Phe  
 100 105

<210> 1652  
 <211> 464  
 <212> PRT  
 <213> Homo sapiens

<400> 1652  
 Met Val Arg Leu Ala Ala Glu Leu Leu Leu Leu Gly Leu Leu Leu  
 1 5 10 15  
 Leu Thr Leu His Ile Thr Val Leu Arg Gly Ser Gly Ala Ala Asp Gly  
 20 25 30  
 Pro Asp Ala Ala Ala Gly Asn Ala Ser Gln Ala Gln Leu Gln Asn Asn  
 35 40 45  
 Leu Asn Val Gly Ser Asp Thr Thr Ser Glu Thr Ser Phe Ser Leu Ser

50					55					60					
Lys	Glu	Ala	Pro	Arg	Glu	His	Leu	Asp	His	Gln	Ala	Ala	His	Gln	Pro
65					70					75					80
Phe	Pro	Arg	Pro	Arg	Phe	Arg	Gln	Glu	Thr	Gly	His	Pro	Ser	Leu	Gln
					85				90					95	
Arg	Asp	Phe	Pro	Arg	Ser	Phe	Leu	Leu	Asp	Leu	Pro	Asn	Phe	Pro	Asp
			100					105					110		
Leu	Ser	Lys	Ala	Asp	Ile	Asn	Gly	Gln	Asn	Pro	Asn	Ile	Gln	Val	Thr
		115					120					125			
Ile	Glu	Val	Val	Asp	Gly	Pro	Asp	Ser	Glu	Ala	Asp	Lys	Asp	Gln	His
	130					135					140				
Pro	Glu	Asn	Lys	Pro	Ser	Trp	Ser	Val	Pro	Ser	Pro	Asp	Trp	Arg	Ala
145					150					155					160
Trp	Trp	Gln	Arg	Ser	Leu	Ser	Leu	Ala	Arg	Ala	Asn	Ser	Gly	Asp	Gln
				165					170					175	
Asp	Tyr	Lys	Tyr	Asp	Ser	Thr	Ser	Asp	Asp	Ser	Asn	Phe	Leu	Asn	Pro
			180					185					190		
Pro	Arg	Gly	Trp	Asp	His	Thr	Ala	Pro	Gly	His	Arg	Thr	Phe	Glu	Thr
		195					200					205			
Lys	Asp	Gln	Pro	Glu	Tyr	Asp	Ser	Thr	Asp	Gly	Glu	Gly	Asp	Trp	Ser
	210					215					220				
Leu	Trp	Ser	Val	Cys	Ser	Val	Thr	Cys	Gly	Asn	Gly	Asn	Gln	Lys	Arg
225					230					235					240
Thr	Arg	Ser	Cys	Gly	Tyr	Ala	Cys	Thr	Ala	Thr	Glu	Ser	Arg	Thr	Cys
				245					250					255	
Asp	Arg	Pro	Asn	Cys	Pro	Gly	Ile	Glu	Asp	Thr	Phe	Arg	Thr	Ala	Ala
			260					265					270		
Thr	Glu	Val	Ser	Leu	Leu	Ala	Gly	Ser	Glu	Glu	Phe	Asn	Ala	Thr	Lys
		275					280					285			
Leu	Phe	Glu	Val	Asp	Thr	Asp	Ser	Cys	Glu	Arg	Trp	Met	Ser	Cys	Lys
	290					295					300				
Ser	Glu	Phe	Leu	Lys	Lys	Tyr	Met	His	Lys	Val	Met	Asn	Asp	Leu	Pro
305					310					315					320
Ser	Cys	Pro	Cys	Ser	Tyr	Pro	Thr	Glu	Val	Ala	Tyr	Ser	Thr	Ala	Asp
				325					330					335	
Ile	Phe	Asp	Arg	Ile	Lys	Arg	Lys	Asp	Phe	Arg	Trp	Lys	Asp	Ala	Ser
			340					345					350		
Gly	Pro	Lys	Glu	Lys	Leu	Glu	Ile	Tyr	Lys	Pro	Thr	Ala	Arg	Tyr	Cys

355		360		365
Ile Arg Ser Met Leu Ser Leu Glu Ser Thr Thr Leu Ala Ala Gln His				
370		375		380
Cys Cys Tyr Gly Asp Asn Met Gln Leu Ile Thr Arg Gly Lys Gly Ala				
385		390		400
Gly Thr Pro Asn Leu Ile Ser Thr Glu Phe Ser Ala Glu Leu His Tyr				
	405		410	415
Lys Val Asp Val Leu Pro Trp Ile Ile Cys Lys Gly Asp Trp Ser Arg				
	420		425	430
Tyr Asn Glu Ala Arg Pro Pro Asn Asn Gly Gln Lys Cys Thr Glu Ser				
	435		440	445
Pro Ser Asp Glu Asp Tyr Ile Lys Gln Phe Gln Glu Ala Arg Glu Tyr				
	450		455	460

<210> 1653  
 <211> 158  
 <212> PRT  
 <213> Homo sapiens

<400> 1653

Met Thr Thr Met Ala Pro Val Gly Leu Gln Thr Arg Ile Pro Trp Leu				
1	5		10	15
Leu Cys Leu Gly Pro Pro Pro Gly Pro Cys Cys Pro Leu Ser Pro Thr				
	20		25	30
Ser Thr Leu Pro His Thr Pro Thr Ala Arg Ser Leu His Pro Thr Met				
	35		40	45
Ser Phe His Leu Thr Pro Met Val Gly Ala Val Pro Ala Ala Ser Ile				
	50		55	60
Val Arg Ala Ala Gly Ala Val Gly Arg His Gly Val Met Gly Gly Gln				
65	70		75	80
Gly Ala Arg Gly Gly Pro Arg Ser Gly Pro Pro Ser Pro Ser Pro Ala				
	85		90	95
Val Ala Val Ser Leu Ser Pro Pro Ala Glu Gly Ala Ala Phe Gly Gly				
	100		105	110
Val Gly Lys Gln Val Gly Leu Ala Met Gly Ala Leu Leu His Pro Glu				
	115		120	125
Ala Gln Leu Gly Val Pro Leu Ile Ser Glu Pro Thr Gln Gly Ser Ile				
	130		135	140

Pro Met Asp Arg Pro Leu Ala Trp Pro Ser Pro Thr Thr Pro  
145 150 155

<210> 1654  
<211> 106  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1654  
Pro Thr Phe Ser Asp Gln Tyr Leu Ala Pro His Pro Tyr Ser Pro Gln  
1 5 10 15  
Pro Pro Pro Tyr His Glu Leu Pro His Xaa His Gly Gln Ser Gln Arg  
20 25 30  
Val Leu Cys Gly Cys Tyr Val Ala His Cys Gly Ala Arg Leu Gly Arg  
35 40 45  
Ala Leu Leu Val Cys Asp Trp Val Ser Trp Pro Ser Cys Ala Cys Ser  
50 55 60  
Tyr Ser Ala Trp Ala Gln Pro Thr Ser Cys Cys His Thr Gly Asp Cys  
65 70 75 80  
Gly His Cys Asp Ser His Gln Gln Cys Leu Val Pro Pro Pro Ser Leu  
85 90 95  
Arg Gly Arg Gln Gly Thr Phe Asp Tyr Phe  
100 105

<210> 1655  
<211> 158  
<212> PRT  
<213> Homo sapiens

<400> 1655  
Met Thr Thr Met Ala Pro Val Gly Leu Gln Thr Arg Ile Pro Trp Leu  
1 5 10 15  
Leu Cys Leu Gly Pro Pro Pro Gly Pro Cys Cys Pro Leu Ser Pro Thr  
20 25 30  
Ser Thr Leu Pro His Thr Pro Thr Ala Arg Ser Leu His Pro Thr Met  
35 40 45  
Ser Phe His Leu Thr Pro Met Val Gly Ala Val Pro Ala Ala Ser Ile  
50 55 60



Val	Arg	Ala	Ala	Gly	Ala	Val	Gly	Arg	His	Gly	Val	Met	Gly	Gly	Gln
65					70					75					80
Gly	Ala	Arg	Gly	Gly	Pro	Arg	Ser	Gly	Pro	Pro	Ser	Pro	Ser	Pro	Ala
				85					90					95	
Val	Ala	Val	Ser	Leu	Ser	Pro	Pro	Ala	Glu	Gly	Ala	Ala	Phe	Gly	Gly
			100					105					110		
Val	Gly	Lys	Gln	Val	Gly	Leu	Ala	Met	Gly	Ala	Leu	Leu	His	Pro	Glu
		115					120					125			
Ala	Gln	Leu	Gly	Val	Pro	Leu	Ile	Ser	Glu	Pro	Thr	Gln	Gly	Ser	Ile
	130					135					140				
Pro	Met	Asp	Arg	Pro	Leu	Ala	Trp	Pro	Ser	Pro	Thr	Thr	Pro		
145					150					155					

<210> 1656  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 1656															
Met	His	Arg	Pro	Glu	Ala	Met	Leu	Leu	Leu	Leu	Thr	Leu	Ala	Leu	Leu
1				5					10					15	
Gly	Gly	Pro	Thr	Trp	Ala	Gly	Lys	Met	Tyr	Gly	Pro	Gly	Gly	Gly	Lys
			20					25					30		
Tyr	Phe	Ser	Thr	Thr	Glu	Asp	Tyr	Asp	His	Glu	Ile	Thr	Gly	Leu	Arg
		35					40					45			
Val	Ser	Val	Gly	Leu	Leu	Leu	Val	Lys	Arg	Phe	Leu	Glu	Gly	Val	Ile
	50					55					60				
Tyr	Glu														
65															

<210> 1657  
 <211> 178  
 <212> PRT  
 <213> Homo sapiens

<400> 1657															
Met	His	Arg	Pro	Glu	Ala	Met	Leu	Leu	Leu	Leu	Thr	Leu	Ala	Leu	Leu
1				5					10					15	
Gly	Gly	Pro	Thr	Trp	Ala	Gly	Lys	Met	Tyr	Gly	Pro	Gly	Gly	Gly	Lys
			20					25					30		
Tyr	Phe	Ser	Thr	Thr	Glu	Asp	Tyr	Asp	His	Glu	Ile	Thr	Gly	Leu	Arg



	35		40		45											
Val	Ser	Val	Gly	Leu	Leu	Leu	Val	Lys	Ser	Val	Gln	Val	Lys	Leu	Gly	
	50					55					60					
Asp	Ser	Trp	Asp	Val	Lys	Leu	Gly	Ala	Leu	Gly	Gly	Asn	Thr	Gln	Glu	
65					70					75					80	
Val	Thr	Leu	Gln	Pro	Gly	Glu	Tyr	Ile	Thr	Lys	Val	Phe	Val	Ala	Phe	
				85					90					95		
Gln	Ala	Phe	Leu	Arg	Gly	Met	Val	Met	Tyr	Thr	Ser	Lys	Asp	Arg	Tyr	
			100					105					110			
Phe	Tyr	Phe	Gly	Lys	Leu	Asp	Gly	Gln	Ile	Ser	Ser	Ala	Tyr	Pro	Ser	
	115						120					125				
Gln	Glu	Gly	Gln	Val	Leu	Val	Gly	Ile	Tyr	Gly	Gln	Tyr	Gln	Leu	Leu	
	130					135					140					
Gly	Ile	Lys	Ser	Ile	Gly	Phe	Glu	Trp	Asn	Tyr	Pro	Leu	Glu	Glu	Pro	
145					150					155					160	
Thr	Thr	Glu	Pro	Pro	Val	Asn	Leu	Thr	Tyr	Ser	Ala	Asn	Ser	Pro	Val	
				165					170					175		

Gly Arg

<210> 1658  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (52)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1658

Met	Thr	Phe	Cys	Leu	Phe	Val	Leu	Phe	Cys	Leu	Xaa	Trp	Ser	Leu	Ala	
1				5					10					15		
Leu	Leu	Pro	Arg	Val	Glu	Cys	Ser	Gly	Ala	Ile	Ser	Ala	His	Cys	Asn	
			20					25					30			
Leu	His	Leu	Pro	Gly	Ser	Gly	Gly	Phe	Ser	Cys	Leu	Ser	Leu	Leu	Ser	
		35					40					45				
Ser	Trp	Asp	Xaa	Arg	His	Ala	Pro	Pro	Cys	Pro	Asp	Asn	Phe	Cys	Xaa	
	50					55					60					
Phe	Ser	Xaa	Xaa	Gly	Val	Ser	Leu	Cys	Trp	Gln	Ala	Gly	Leu	Glu	His	
65					70					75					80	
Leu	Thr	Arg	Gly	Pro	Pro	Ala	Ser	Ala	Ser	Gln	Ser	Thr	Gly	Ile	Thr	
				85					90					95		
Gly	Val	Ser	His	Pro	Ala	Trp	Pro	Arg	Met	Thr	Phe	Lys	Arg	Ser	Asn	
			100					105					110			

<210> 1659

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1659

Met	Thr	Thr	Ala	Ser	Ser	Leu	Ile	Ser	Pro	Phe	Phe	Pro	Leu	Pro	Pro	
1				5					10					15		
Pro	Ala	His	Phe	Ser	Gln	Cys	Arg	Met	Thr	Phe	Cys	Leu	Phe	Val	Leu	
			20					25					30			
Phe	Cys	Leu	Arg	Trp	Ser	Leu	Ala	Leu	Leu	Pro	Arg	Val	Glu	Cys	Ser	
		35					40					45				
Gly	Ala	Ile	Ser	Ala	His	Cys	Asn	Leu	His	Leu	Pro	Gly	Ser	Ser	Gly	
	50					55					60					
Phe	Ser	Cys	Leu	Ser	Leu	Leu	Ser	Ser	Trp	Asp	Tyr	Arg	His	Ala	Pro	
65					70					75					80	
Pro	Cys	Pro	Asp	Asn	Phe	Cys	Ile	Phe	Ser	Arg	Asp	Gly	Val	Ser	Leu	
				85					90					95		
Cys	Trp	Pro	Gly	Trp	Ser	Arg	Thr	Pro	Asp	Leu	Val	Val	His	Pro	Pro	
			100					105					110			

Arg Pro Pro Lys Ala Leu Gly Leu Gln Ala  
115 120

<210> 1660  
<211> 65  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1660  
Met Cys Lys Gly Leu Lys Asn Pro Glu Gly Leu Leu Leu Leu Leu Leu  
1 5 10 15

Leu Leu Leu Phe Thr Asp Thr Xaa Asn Ser His Cys Leu Pro Pro Tyr  
20 25 30

Leu Ser Cys Phe Leu His Glu Arg Gln Pro Glu Leu Gln Ser Val Cys  
35 40 45

Ile Ser Ala Ala Tyr Val Leu Ala Pro Leu Gln Asn Pro Val Ser Ser  
50 55 60

Leu  
65

<210> 1661  
<211> 299  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (172)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (174)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1661  
Gly Gly Glu Glu Glu Gly Glu Glu Gly Ala Glu Ile Ser Gly Leu Gly  
1 5 10 15

Ala Gly Arg Arg Ser Ala Pro Ile Ala Val Gly Leu Gly Phe Leu Gly  
20 25 30

Val Gly Gly Arg Gly Gly Ser Asp Met Glu Ala Asn Gly Ser Gln Gly



<400> 1662

Met Cys Lys Gly Leu Lys Asn Pro Glu Gly Leu Leu Leu Leu Leu  
1 5 10 15  
Leu Leu Leu Phe Thr Asp Thr Ser Asn Ser His Cys Leu Pro Pro Tyr  
20 25 30  
Leu Ser Cys Phe Leu His Glu Arg Gln Pro Glu Leu Gln Ser Val Cys  
35 40 45  
Ile Ser Ala Ala Tyr Val Leu Ala Thr Pro Pro Glu Pro Ser Phe Ile  
50 55 60  
Leu Val Gly Phe Ser Glu Ala Gly Phe Ala Gln Val Ala Cys Phe Leu  
65 70 75 80  
Lys Tyr Leu Phe Cys Arg Pro Phe Thr Arg His Gly Tyr Phe Tyr Ser  
85 90 95

Gly

<210> 1663

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1663

Met Leu Ala Ala Ala Pro Leu His Glu Gln Lys Gln Met Ile Gly Thr  
1 5 10 15  
Cys Tyr Leu Val Leu Lys Arg Trp Ser Asp Trp Met Val Leu Ser Phe  
20 25 30  
Leu Pro Leu Leu Leu Ser Cys Asp Phe Glu Gly Ser Val Ser Thr Pro  
35 40 45  
Leu Ser Met Met Ser Thr Pro Ser Trp Leu Ala Arg Ser Arg Ala Cys  
50 55 60  
Cys Trp Arg Leu Thr Thr Xaa Ser Cys Cys Ser Cys Trp Ser Leu Gln  
65 70 75 80  
Asn Pro Ser Met Pro Arg  
85

<210> 1664

<211> 86

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (71)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1664  
Met Leu Ala Ala Ala Pro Leu His Glu Gln Lys Gln Met Ile Gly Thr  
1 5 10 15  
Cys Tyr Leu Val Leu Lys Arg Trp Ser Asp Trp Met Val Leu Ser Phe  
20 25 30  
Leu Pro Leu Leu Leu Ser Cys Asp Phe Glu Gly Ser Val Ser Thr Pro  
35 40 45  
Leu Ser Met Met Ser Thr Pro Ser Trp Leu Ala Arg Ser Arg Ala Cys  
50 55 60  
Cys Trp Arg Leu Thr Thr Xaa Ser Cys Cys Ser Cys Trp Ser Leu Gln  
65 70 75 80  
Asn Pro Ser Met Pro Arg  
85

<210> 1665  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 1665  
Met Lys His Ser Phe Leu Ser Ser Asp Leu Ile Trp Cys Val Leu Ser  
1 5 10 15  
Leu Leu Cys Leu Gly Val Trp Phe Arg Glu Thr Trp Thr Thr Leu Phe  
20 25 30  
Gly Arg Thr Gly Leu Pro Arg Asn Gln Gln Cys Pro Arg Arg Lys Gly  
35 40 45  
Leu

<210> 1666  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 1666  
Met Lys His Ser Phe Leu Ser Ser Asp Leu Ile Trp Cys Val Leu Ser  
1 5 10 15

Leu Leu Cys Leu Gly Val Trp Phe Arg Glu Thr Trp Thr Thr Leu Phe  
20 25 30

Gly Arg Thr Gly Leu Pro Arg Asn Gln Gln Cys Pro Arg Arg Lys Gly  
35 40 45

Leu

<210> 1667  
<211> 142  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (76)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (90)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (108)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1667  
Met Tyr Val Thr Leu Val Phe Arg Val Lys Gly Ser Arg Leu Val Lys  
1 5 10 15

Pro Ser Leu Cys Leu Ala Leu Leu Cys Pro Ala Phe Leu Val Gly Val  
20 25 30

Val Arg Val Ala Glu Tyr Arg Asn His Trp Ser Asp Val Leu Ala Gly  
35 40 45

Phe Leu Thr Gly Ala Ala Ile Ala Thr Phe Leu Val Thr Cys Val Val  
50 55 60

His Asn Phe Gln Xaa Arg Pro Pro Ser Gly Arg Xaa Leu Ser Pro Gln  
65 70 75 80

Ser Ala Tyr Pro Arg Leu Pro Gly Pro Xaa Phe Pro His Leu His Asn  
85 90 95

Gly Gly Asp His Pro Cys Pro Ala Gly Cys Arg Xaa Gly Cys Glu Ser

	100		105		110										
Ser	Ala	Trp	Met	Gln	Pro	Gly	Gly	Ser	His	Arg	Ala	Ala	Phe	Thr	Gly
	115					120					125				
Leu	Ala	Leu	Pro	Trp	Ala	Gly	Gly	Arg	Pro	His	Pro	Lys	Arg		
	130					135					140				

<210> 1668  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 1668															
Met	Tyr	Val	Thr	Leu	Val	Phe	Arg	Val	Lys	Gly	Ser	Arg	Leu	Val	Lys
1				5					10					15	
Pro	Ser	Leu	Cys	Leu	Ala	Leu	Leu	Cys	Pro	Ala	Phe	Leu	Val	Gly	Val
			20					25					30		
Val	Arg	Val	Ala	Glu	Tyr	Arg	Asn	His	Trp	Ser	Asp	Val	Leu	Ala	Gly
		35					40					45			
Phe	Leu	Thr	Gly	Ala	Ala	Ile	Ala	Thr	Phe	Leu	Val	Thr	Cys	Val	Val
	50					55					60				
His	Asn	Phe	Gln	Ser	Arg	Pro	Pro	Ser	Gly	Arg	Arg	Leu	Ser	Pro	Gln
65					70					75					80
Ser	Ala	Tyr	Pro	Arg	Leu	Pro	Gly	Pro	Gln	Phe	Pro	His	Leu	His	Asn
				85					90					95	
Gly	Gly	Asp	His	Pro	Cys	Pro	Ala	Gly	Cys	Gln	Glu	Arg	Leu		
			100					105					110		

<210> 1669  
 <211> 159  
 <212> PRT  
 <213> Homo sapiens

<400> 1669															
Met	Ala	Gly	Pro	Gly	Trp	Thr	Leu	Leu	Leu	Leu	Leu	Leu	Leu	Leu	Leu
1				5					10					15	
Leu	Leu	Gly	Ser	Met	Ala	Gly	Tyr	Gly	Pro	Gln	Lys	Lys	Leu	Asn	Leu
			20					25					30		
Ser	His	Lys	Gly	Ile	Gly	Glu	Pro	Cys	Gly	Arg	His	Glu	Glu	Cys	Gln
		35					40					45			
Ser	Asn	Cys	Cys	Thr	Ile	Asn	Ser	Leu	Ala	Pro	His	Thr	Leu	Cys	Thr
	50					55					60				



Pro	Lys	Thr	Ile	Phe	Leu	Gln	Cys	Leu	Pro	Trp	Arg	Lys	Pro	Asn	Gly
65					70					75					80
Tyr	Arg	Cys	Ser	His	Asp	Ser	Glu	Cys	Gln	Ser	Ser	Cys	Cys	Val	Arg
				85					90					95	
Asn	Asn	Ser	Pro	Gln	Glu	Leu	Cys	Thr	Pro	Gln	Ser	Val	Phe	Leu	Gln
			100					105					110		
Cys	Val	Pro	Trp	Arg	Lys	Pro	Asn	Gly	Asp	Phe	Cys	Ser	Ser	His	Gln
		115					120					125			
Glu	Cys	His	Ser	Gln	Cys	Cys	Ile	Gln	Leu	Arg	Glu	Tyr	Ser	Pro	Phe
	130					135					140				
Arg	Cys	Ile	Pro	Arg	Thr	Gly	Ile	Leu	Ala	Gln	Cys	Leu	Pro	Leu	
145					150					155					

<210> 1670  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

Met	Arg	Trp	Pro	Cys	Pro	Thr	Ser	Lys	Pro	Ala	Pro	Pro	Pro	Val	Leu
1				5					10					15	
Trp	Ser	His	Leu	Cys	Gln	His	Arg	Trp	Gly	Leu	Thr	Pro	Ala	Ser	Thr
			20					25					30		
Leu	Leu	Cys	Trp	Leu	Leu	Leu	Phe	Asn	Leu	Gly	Thr	Cys	Leu	Ser	Phe
		35					40					45			
Ser	His	Leu	Lys	Gln	Asn	Asn	Asn	Asn	Ser	Asn	Thr	Ser	Lys	Ile	Ser
	50					55					60				
Phe	Asp	Pro	Ala	Ser	Leu	Cys	Trp	Val	Ile	Ile	Ser	Leu	Ser	Phe	Pro
65					70				75						80
Pro	Phe	Pro	Ser	Lys	His	Leu	Lys	Arg	Val	Val	Tyr	Thr	Gln	His	Ser
				85					90					95	
Pro	Phe	Pro	His	Tyr	Pro	Leu	Thr	Pro	Gln	Pro	Ala	Ala	Ile		
			100					105					110		

<210> 1671  
 <211> 382  
 <212> PRT  
 <213> Homo sapiens

Gly	Pro	Glu	Arg	Gly	Arg	Tyr	Tyr	Pro	Lys	Ser	His	Lys	Asn	Val	Asp
1				5					10					15	

Leu	Asn	Asp	Val	Leu	Val	Pro	Lys	Pro	Phe	Ser	Gln	Phe	Trp	Gln	Pro
			20					25					30		
Leu	Leu	Arg	Gly	Leu	His	Ser	Gln	Asn	Phe	Thr	Gln	Ala	Leu	Leu	Glu
		35					40					45			
Arg	Met	Leu	Ser	Glu	Leu	Pro	Ala	Leu	Gly	Ile	Ser	Gly	Ile	Arg	Pro
	50					55					60				
Thr	Tyr	Ile	Leu	Arg	Trp	Thr	Val	Glu	Leu	Ile	Val	Ala	Asn	Thr	Lys
65					70					75					80
Thr	Gly	Arg	Asn	Ala	Arg	Arg	Phe	Ser	Ala	Gly	Gln	Trp	Glu	Ala	Arg
				85					90					95	
Arg	Gly	Trp	Arg	Leu	Phe	Asn	Cys	Ser	Ala	Ser	Leu	Asp	Trp	Pro	Arg
			100					105					110		
Met	Val	Glu	Ser	Cys	Leu	Gly	Ser	Pro	Cys	Trp	Ala	Ser	Pro	Gln	Leu
		115					120					125			
Leu	Arg	Ile	Ile	Phe	Lys	Ala	Met	Gly	Gln	Gly	Leu	Pro	Asp	Glu	Glu
	130					135					140				
Gln	Glu	Lys	Leu	Leu	Arg	Ile	Cys	Ser	Ile	Tyr	Thr	Gln	Ser	Gly	Glu
145					150					155					160
Asn	Ser	Leu	Val	Gln	Glu	Gly	Ser	Glu	Ala	Ser	Pro	Ile	Gly	Lys	Ser
				165					170					175	
Pro	Tyr	Thr	Leu	Asp	Ser	Leu	Tyr	Trp	Ser	Val	Lys	Pro	Ala	Ser	Ser
			180					185					190		
Ser	Phe	Gly	Ser	Glu	Ala	Lys	Ala	Gln	Gln	Gln	Glu	Glu	Gln	Gly	Ser
		195					200					205			
Val	Asn	Asp	Val	Lys	Glu	Glu	Glu	Lys	Glu	Glu	Lys	Glu	Val	Leu	Pro
	210					215					220				
Asp	Gln	Val	Glu	Glu	Glu	Glu	Glu	Asn	Asp	Asp	Gln	Glu	Glu	Glu	Glu
225					230					235					240
Glu	Asp	Glu	Asp	Asp	Glu	Asp	Asp	Glu	Glu	Glu	Asp	Arg	Met	Glu	Val
				245					250					255	
Gly	Pro	Phe	Ser	Thr	Gly	Gln	Glu	Ser	Pro	Thr	Ala	Glu	Asn	Ala	Arg
			260					265					270		
Leu	Leu	Ala	Gln	Lys	Arg	Gly	Ala	Leu	Gln	Gly	Ser	Ala	Trp	Gln	Val
		275					280					285			
Ser	Ser	Glu	Asp	Val	Arg	Trp	Asp	Thr	Phe	Pro	Leu	Gly	Arg	Met	Pro
	290					295					300				
Gly	Gln	Thr	Glu	Asp	Pro	Ala	Glu	Leu	Met	Leu	Glu	Asn	Tyr	Asp	Thr
305					310					315					320

Met Tyr Leu Leu Asp Gln Pro Val Leu Glu Gln Arg Leu Glu Pro Ser  
325 330 335

Thr Cys Lys Thr Asp Thr Leu Gly Leu Ser Cys Gly Val Gly Ser Gly  
340 345 350

Asn Cys Ser Asn Ser Ser Ser Ser Asn Phe Glu Gly Leu Leu Trp Ser  
355 360 365

Gln Gly Gln Leu His Gly Leu Lys Thr Gly Leu Gln Leu Phe  
370 375 380

<210> 1672  
<211> 110  
<212> PRT  
<213> Homo sapiens

<400> 1672  
Met Arg Trp Pro Cys Pro Thr Ser Lys Pro Ala Pro Pro Pro Val Leu  
1 5 10 15

Trp Ser His Leu Cys Gln His Arg Trp Gly Leu Thr Pro Ala Ser Thr  
20 25 30

Leu Leu Cys Trp Leu Leu Leu Phe Asn Leu Gly Thr Cys Leu Ser Phe  
35 40 45

Ser His Leu Lys Gln Asn Asn Asn Asn Ser Asn Thr Ser Lys Ile Ser  
50 55 60

Phe Asp Pro Ala Ser Leu Cys Trp Val Ile Ile Ser Leu Ser Phe Pro  
65 70 75 80

Pro Phe Pro Ser Lys His Leu Lys Arg Val Val Tyr Thr Gln His Ser  
85 90 95

Pro Phe Pro His Tyr Pro Leu Thr Pro Gln Pro Ala Ala Ile  
100 105 110

<210> 1673  
<211> 156  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (92)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (114)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1673

Met	Leu	Gln	Gly	His	Ser	Ser	Val	Phe	Gln	Ala	Leu	Leu	Gly	Thr	Phe
1				5				10						15	

Phe	Thr	Trp	Gly	Met	Thr	Ala	Ala	Gly	Ala	Ala	Leu	Val	Phe	Val	Phe
			20					25					30		

Ser	Ser	Gly	Gln	Arg	Arg	Ile	Leu	Asp	Gly	Ser	Leu	Gly	Phe	Ala	Ala
		35					40					45			

Gly	Val	Met	Leu	Ala	Ala	Ser	Tyr	Trp	Ser	Leu	Leu	Ala	Pro	Ala	Val
	50					55					60				

Glu	Met	Ala	Thr	Ser	Ser	Gly	Gly	Phe	Gly	Ala	Phe	Ala	Phe	Phe	Pro
65					70					75					80

Val	Ala	Val	Gly	Phe	Thr	Leu	Gly	Ala	Ala	Phe	Xaa	Tyr	Leu	Ala	Asp
				85					90					95	

Leu	Leu	Met	Pro	His	Leu	Gly	Ala	Ala	Glu	Asp	Pro	Gln	Thr	Ala	Leu
		100						105					110		

Ala	Xaa	Asn	Phe	Gly	Ser	Thr	Leu	Met	Xaa	Lys	Lys	Ser	Asp	Pro	Glu
		115					120					125			

Gly	Pro	Ala	Leu	Leu	Xaa	Pro	Glu	Ser	Glu	Leu	Phe	Ile	Arg	Ile	Gly
	130					135					140				

Arg	Leu	Ala	Ser	Phe	Ser	Ser	Ser	Leu	Leu	Gln	His
145					150					155	

<210> 1674

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1674

Met Leu Gln Gly His Ser Ser Val Phe Gln Ala Leu Leu Gly Thr Phe

1	5	10	15
Phe Thr Trp Gly Met Thr Ala Ala Gly Ala Ala Leu Val Phe Val Phe	20	25	30
Ser Ser Gly Gln Arg Arg Ile Leu Asp Gly Ser Leu Gly Phe Ala Ala	35	40	45
Gly Val Met Leu Ala Ala Ser Tyr Trp Ser Leu Leu Ala Pro Ala Val	50	55	60
Glu Met Ala Thr Ser Ser Gly Gly Phe Gly Ala Phe Ala Phe Phe Pro	65	70	75
Val Ala Val Gly Phe Thr Leu Gly Ala Ala Phe Val Tyr Leu Ala Asp	85	90	95
Leu Leu Met Pro His Leu Gly Ala Ala Glu Asp Pro Gln Thr Ala Leu	100	105	110
Ala Leu Asn Phe Gly Ser Thr Leu Met Lys Lys Lys Ser Asp Pro Glu	115	120	125
Gly His Ala Leu Leu Phe Pro Glu Arg Ile His Xaa Ile Asp Lys Ser	130	135	140
Glu Asn Gly Glu Ala Tyr Gln Arg Lys Lys Ala Ala Ala Thr Gly Leu	145	150	155
Pro Glu Gly Pro Ala Val Pro	165		

<210> 1675  
 <211> 204  
 <212> PRT  
 <213> Homo sapiens

<400> 1675
Met Phe Gln Phe Leu Ser Gln Gly Phe Tyr Cys Gly Val Gly Leu Phe
1 5 10 15
Thr Arg Phe Leu Lys Leu Leu Gly Ala Leu Leu Leu Leu Ala Leu Ala
20 25 30
Leu Phe Leu Gly Phe Leu Gln Leu Gly Trp Arg Phe Leu Val Gly Leu
35 40 45
Gly Asp Arg Leu Gly Trp Arg Asp Lys Ala Thr Trp Leu Phe Ser Trp
50 55 60
Leu Asp Ser Pro Ala Leu Gln Arg Cys Leu Thr Leu Leu Arg Asp Ser
65 70 75 80
Arg Pro Trp Gln Arg Leu Val Arg Ile Val Gln Trp Gly Trp Leu Glu
85 90 95







<220>

<221> SITE

<222> (119)

<223> Xaa\_equals any of the naturally occurring L-amino acids

<400> 1677

Met Ala Leu Phe Arg Cys Val Trp Ser Val Leu Ser Ala Leu Gly Lys  
1 5 10 15

Ser Gly Ser Asp Leu Cys Ala Gly Cys Gly Ser Arg Leu Arg Ser Pro  
20 25 30

Phe Ser Phe Ala Tyr Val Pro Arg Cys Phe Ser Ser Thr Ala Asn Ser  
35 40 45

Tyr Pro Lys Lys Pro Leu Thr Ser Tyr Val Arg Phe Ser Lys Glu Gln  
50 55 60

Leu Pro Ile Phe Lys Ala Gln Asn Pro Asp Ala Lys Asn Ser Glu Leu  
65 70 75 80

Ile Arg Lys Ile Ala Gln Leu Trp Arg Glu Leu Pro Asp Ser Glu Lys  
85 90 95

Lys Ile Tyr Glu Asp Ala Tyr Arg Ala Asp Leu Ala Gly His Thr Lys  
100 105 110

Lys Glu Ile Asn Arg Ile Xaa Glu Pro Gly  
115 120

<210> 1678

<211> 246

<212> PRT

<213> Homo sapiens

<400> 1678

Met Ala Leu Phe Arg Cys Val Trp Ser Val Leu Ser Ala Leu Gly Lys  
1 5 10 15

Ser Gly Ser Asp Leu Cys Ala Gly Cys Gly Ser Arg Leu Arg Ser Pro  
20 25 30

Phe Ser Phe Ala Tyr Val Pro Arg Cys Phe Ser Ser Thr Ala Asn Ser  
35 40 45

Tyr Pro Lys Lys Pro Leu Thr Ser Tyr Val Arg Phe Ser Lys Glu Gln  
50 55 60

Leu Pro Ile Phe Lys Ala Gln Asn Pro Asp Ala Lys Asn Ser Glu Leu  
65 70 75 80

Ile Arg Lys Ile Ala Gln Leu Trp Arg Glu Leu Pro Asp Ser Glu Lys  
85 90 95



Lys Ile Tyr Glu Asp Ala Tyr Arg Ala Asp Trp Gln Ala Tyr Lys Glu  
 100 105 110  
 Glu Ile Asn Arg Ile Gln Glu Gln Leu Thr Pro Ser Gln Ile Val Ser  
 115 120 125  
 Leu Glu Lys Glu Ile Gln Gln Lys Arg Leu Lys Lys Lys Ala Leu Ile  
 130 135 140  
 Lys Lys Arg Glu Leu Thr Met Leu Gly Lys Pro Lys Arg Pro Arg Ser  
 145 150 155 160  
 Ala Tyr Asn Ile Phe Ile Ala Glu Arg Phe Gln Glu Thr Lys Asp Gly  
 165 170 175  
 Thr Ser Gln Val Lys Leu Lys Thr Ile Asn Glu Asn Trp Lys Asn Leu  
 180 185 190  
 Ser Ser Ser Gln Lys Gln Val Tyr Ile Gln Leu Ala Asn Asp Asp Lys  
 195 200 205  
 Ile Arg Tyr Tyr Asn Glu Met Lys Ser Trp Glu Glu Gln Met Met Glu  
 210 215 220  
 Val Gly Arg Lys Asp Leu Leu Arg Arg Thr Val Lys His Gln Arg Lys  
 225 230 235 240  
 Val Asp Pro Glu Glu Tyr  
 245

<210> 1679  
 <211> 495  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (330)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (333)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1679  
 Met Ser Met Leu Val Val Phe Leu Leu Leu Trp Gly Val Thr Trp Gly  
 1 5 10 15  
 Pro Val Thr Glu Ala Ala Ile Phe Tyr Glu Thr Gln Pro Ser Leu Trp  
 20 25 30  
 Ala Glu Ser Glu Ser Leu Leu Lys Pro Leu Ala Asn Val Thr Leu Thr  
 35 40 45

Cys	Gln	Ala	Arg	Leu	Glu	Thr	Pro	Asp	Phe	Gln	Leu	Phe	Lys	Asn	Gly	
	50					55					60					
Val	Ala	Gln	Glu	Pro	Val	His	Leu	Asp	Ser	Pro	Ala	Ile	Lys	His	Gln	
	65				70					75					80	
Phe	Leu	Leu	Thr	Gly	Asp	Thr	Gln	Gly	Arg	Tyr	Arg	Cys	Arg	Ser	Gly	
				85					90					95		
Leu	Ser	Thr	Gly	Trp	Thr	Gln	Leu	Ser	Lys	Leu	Leu	Glu	Leu	Thr	Gly	
			100					105					110			
Pro	Lys	Ser	Leu	Pro	Ala	Pro	Trp	Leu	Ser	Met	Ala	Pro	Val	Ser	Trp	
		115					120					125				
Ile	Thr	Pro	Gly	Leu	Lys	Thr	Thr	Ala	Val	Cys	Arg	Gly	Val	Leu	Arg	
	130					135					140					
Gly	Val	Thr	Phe	Leu	Leu	Arg	Arg	Glu	Gly	Asp	His	Glu	Phe	Leu	Glu	
	145				150					155					160	
Val	Pro	Glu	Ala	Gln	Glu	Asp	Val	Glu	Ala	Thr	Phe	Pro	Val	His	Gln	
				165					170					175		
Pro	Gly	Asn	Tyr	Ser	Cys	Ser	Tyr	Arg	Thr	Asp	Gly	Glu	Gly	Ala	Leu	
			180					185					190			
Ser	Glu	Pro	Ser	Ala	Thr	Val	Thr	Ile	Glu	Glu	Leu	Ala	Ala	Pro	Pro	
		195					200					205				
Pro	Pro	Val	Leu	Met	His	His	Gly	Glu	Ser	Ser	Gln	Val	Leu	His	Pro	
		210				215					220					
Gly	Asn	Lys	Val	Thr	Leu	Thr	Cys	Val	Ala	Pro	Leu	Ser	Gly	Val	Asp	
	225				230					235					240	
Phe	Gln	Leu	Arg	Arg	Gly	Glu	Lys	Glu	Leu	Leu	Val	Pro	Arg	Ser	Ser	
				245					250					255		
Thr	Ser	Pro	Asp	Arg	Ile	Phe	Phe	His	Leu	Asn	Ala	Val	Ala	Leu	Gly	
			260					265					270			
Asp	Gly	Gly	His	Tyr	Thr	Cys	Arg	Tyr	Arg	Leu	His	Asp	Asn	Gln	Asn	
		275					280					285				
Gly	Trp	Ser	Gly	Asp	Ser	Ala	Pro	Val	Glu	Leu	Ile	Leu	Ser	Asp	Glu	
	290					295					300					
Thr	Leu	Pro	Ala	Pro	Glu	Phe	Ser	Pro	Glu	Pro	Glu	Ser	Gly	Arg	Ala	
	305				310					315					320	
Leu	Arg	Leu	Arg	Cys	Leu	Ala	Pro	Leu	Xaa	Gly	Ala	Xaa	Phe	Ala	Leu	
				325					330					335		
Val	Arg	Glu	Asp	Arg	Gly	Gly	Arg	Arg	Val	His	Arg	Phe	Gln	Ser	Pro	
			340				345						350			

Ala	Gly	Thr	Glu	Ala	Leu	Phe	Glu	Leu	His	Asn	Ile	Ser	Val	Ala	Asp
	355						360					365			
Ser	Ala	Asn	Tyr	Ser	Cys	Val	Tyr	Val	Asp	Leu	Lys	Pro	Pro	Phe	Gly
	370					375					380				
Gly	Ser	Ala	Pro	Ser	Glu	Arg	Leu	Glu	Leu	His	Val	Asp	Gly	Pro	Pro
385					390					395					400
Pro	Arg	Pro	Gln	Leu	Arg	Ala	Thr	Trp	Ser	Gly	Ala	Val	Leu	Ala	Gly
			405						410					415	
Arg	Asp	Ala	Val	Leu	Arg	Cys	Glu	Gly	Pro	Ile	Pro	Asp	Val	Thr	Phe
		420						425					430		
Glu	Leu	Leu	Arg	Glu	Gly	Glu	Thr	Lys	Ala	Val	Lys	Thr	Val	Arg	Thr
	435						440					445			
Pro	Gly	Ala	Ala	Ala	Asn	Leu	Glu	Leu	Ile	Phe	Val	Gly	Pro	Gln	His
	450					455					460				
Ala	Gly	Asn	Tyr	Arg	Cys	Arg	Tyr	Arg	Ser	Trp	Val	Pro	His	Thr	Phe
465					470					475					480
Glu	Ser	Glu	Leu	Ser	Asp	Pro	Val	Glu	Leu	Leu	Val	Ala	Glu	Ser	
				485					490					495	

<210> 1680  
 <211> 495  
 <212> PRT  
 <213> Homo sapiens

<400> 1680															
Met	Ser	Met	Leu	Val	Val	Phe	Leu	Leu	Leu	Trp	Gly	Val	Thr	Trp	Gly
1				5					10					15	
Pro	Val	Thr	Glu	Ala	Ala	Ile	Phe	Tyr	Glu	Thr	Gln	Pro	Ser	Leu	Trp
			20					25					30		
Ala	Glu	Ser	Glu	Ser	Leu	Leu	Lys	Pro	Leu	Ala	Asn	Val	Thr	Leu	Thr
		35					40					45			
Cys	Gln	Ala	Arg	Leu	Glu	Thr	Pro	Asp	Phe	Gln	Leu	Phe	Lys	Asn	Gly
	50					55					60				
Val	Ala	Gln	Glu	Pro	Val	His	Leu	Asp	Ser	Pro	Ala	Ile	Lys	His	Gln
65					70					75					80
Phe	Leu	Leu	Thr	Gly	Asp	Thr	Gln	Gly	Arg	Tyr	Arg	Cys	Arg	Ser	Gly
				85					90					95	
Leu	Ser	Thr	Gly	Trp	Thr	Gln	Leu	Ser	Lys	Leu	Leu	Glu	Leu	Thr	Gly
			100					105					110		
Pro	Lys	Ser	Leu	Pro	Ala	Pro	Trp	Leu	Ser	Met	Ala	Pro	Val	Ser	Trp

115						120					125						
Ile	Thr	Pro	Gly	Leu	Lys	Thr	Thr	Ala	Val	Cys	Arg	Gly	Val	Leu	Arg		
130						135					140						
Gly	Val	Thr	Phe	Leu	Leu	Arg	Arg	Glu	Gly	Asp	His	Glu	Phe	Leu	Glu		
145						150					155					160	
Val	Pro	Glu	Gly	Gln	Glu	Asp	Val	Glu	Ala	Thr	Phe	Pro	Val	His	Gln		
165						170					175						
Pro	Gly	Asn	Tyr	Ser	Cys	Ser	Tyr	Arg	Thr	Asp	Gly	Glu	Gly	Ala	Leu		
180						185					190						
Ser	Glu	Pro	Ser	Ala	Thr	Val	Thr	Ile	Glu	Glu	Leu	Ala	Ala	Pro	Pro		
195						200					205						
Pro	Pro	Val	Leu	Met	His	His	Gly	Glu	Ser	Ser	Gln	Val	Leu	His	Pro		
210						215					220						
Gly	Asn	Lys	Val	Thr	Leu	Thr	Cys	Val	Ala	Pro	Leu	Ser	Gly	Val	Asp		
225						230					235					240	
Phe	Gln	Leu	Arg	Arg	Gly	Glu	Lys	Glu	Leu	Leu	Val	Pro	Arg	Ser	Ser		
245						250					255						
Thr	Ser	Pro	Asp	Arg	Ile	Phe	Phe	His	Leu	Asn	Ala	Val	Ala	Leu	Gly		
260						265					270						
Asp	Gly	Gly	His	Tyr	Thr	Cys	Arg	Tyr	Arg	Leu	His	Asp	Asn	Gln	Asn		
275						280					285						
Gly	Trp	Ser	Gly	Asp	Ser	Ala	Pro	Val	Glu	Leu	Ile	Leu	Ser	Asp	Glu		
290						295					300						
Thr	Leu	Pro	Ala	Pro	Glu	Phe	Ser	Pro	Glu	Pro	Glu	Ser	Gly	Arg	Ala		
305						310					315					320	
Leu	Arg	Leu	Arg	Cys	Leu	Ala	Pro	Leu	Glu	Gly	Ala	Arg	Phe	Ala	Leu		
325						330					335						
Val	Arg	Glu	Asp	Arg	Gly	Gly	Arg	Arg	Val	His	Arg	Phe	Gln	Ser	Pro		
340						345					350						
Ala	Gly	Thr	Glu	Ala	Leu	Phe	Glu	Leu	His	Asn	Ile	Ser	Val	Ala	Asp		
355						360					365						
Ser	Ala	Asn	Tyr	Ser	Cys	Val	Tyr	Val	Asp	Leu	Lys	Pro	Pro	Phe	Gly		
370						375					380						
Gly	Ser	Ala	Pro	Ser	Glu	Arg	Leu	Glu	Leu	His	Val	Asp	Gly	Pro	Pro		
385						390					395					400	
Pro	Arg	Pro	Gln	Leu	Arg	Ala	Thr	Trp	Ser	Gly	Ala	Val	Leu	Ala	Gly		
405						410					415						
Arg	Asp	Ala	Val	Leu	Arg	Cys	Glu	Gly	Pro	Ile	Pro	Asp	Val	Thr	Phe		



<213> Homo sapiens

<400> 1682

Ser	Ser	Pro	Thr	Ser	Pro	Lys	Asp	Asn	Tyr	Gln	Arg	Val	Ser	Ser	Leu
1				5					10					15	
Ser	Pro	Ser	Gln	Cys	Arg	Lys	Asp	Lys	Cys	Gln	Ser	Phe	Pro	Thr	His
			20					25					30		
Pro	Glu	Phe	Ala	Phe	Tyr	Asp	Asn	Thr	Ser	Phe	Gly	Leu	Thr	Glu	Ala
		35					40					45			
Glu	Gln	Arg	Met	Leu	Asp	Leu	Pro	Gly	Tyr	Phe	Gly	Ser	Asn	Glu	Glu
	50					55					60				
Asp	Glu	Thr	Thr	Ser	Thr	Leu	Ser	Val	Glu	Lys	Leu	Val	Ile		
65					70					75					

<210> 1683

<211> 490

<212> PRT

<213> Homo sapiens

<400> 1683

Met	Gly	Lys	Asn	Lys	Tyr	Cys	Phe	Asp	Phe	Gly	Ile	Ser	Ser	Arg	Ser
1				5					10					15	
His	Phe	Ser	Ala	Lys	Glu	Glu	Cys	Met	Leu	Ile	Gln	Arg	Asn	Thr	Ala
			20					25					30		
Phe	Gln	Pro	Ser	Ser	Pro	Ser	Pro	Leu	Gln	Pro	Gln	Gly	Pro	Val	Lys
		35					40					45			
Ser	Asn	Asn	Ile	Val	Thr	Val	Thr	Gly	Ile	Ser	Leu	Cys	Leu	Phe	Ile
	50					55					60				
Ile	Ile	Ala	Thr	Val	Leu	Ile	Thr	Leu	Trp	Arg	Arg	Phe	Gly	Arg	Pro
65					70					75					80
Ala	Lys	Cys	Ser	Thr	Pro	Ala	Arg	His	Asn	Ser	Ile	His	Ser	Pro	Ser
				85					90					95	
Phe	Arg	Lys	Asn	Ser	Asp	Glu	Glu	Asn	Ile	Cys	Glu	Leu	Ser	Glu	Gln
			100					105					110		
Arg	Gly	Ser	Phe	Ser	Asp	Gly	Gly	Asp	Gly	Pro	Thr	Gly	Ser	Pro	Gly
	115						120					125			
Asp	Thr	Gly	Ile	Pro	Leu	Thr	Tyr	Arg	Arg	Ser	Gly	Pro	Val	Pro	Pro
	130					135					140				
Glu	Asp	Asp	Ala	Ser	Gly	Ser	Glu	Ser	Phe	Gln	Ser	Asn	Ala	Gln	Lys
145					150					155					160
Ile	Ile	Pro	Pro	Leu	Phe	Ser	Tyr	Arg	Leu	Ala	Gln	Gln	Gln	Leu	Lys

165						170						175											
Glu	Met	Lys	Lys	Lys	Gly	Leu	Thr	Glu	Thr	Thr	Lys	Val	Tyr	His	Val								
180						185						190											
Ser	Gln	Ser	Pro	Leu	Thr	Asp	Thr	Ala	Ile	Asp	Ala	Ala	Pro	Ser	Ala								
195						200						205											
Pro	Leu	Asp	Leu	Glu	Ser	Pro	Glu	Glu	Ala	Ala	Ala	Asn	Lys	Phe	Arg								
210						215						220											
Ile	Lys	Ser	Pro	Phe	Pro	Glu	Gln	Pro	Ala	Val	Ser	Ala	Gly	Glu	Arg								
225						230						235						240					
Pro	Pro	Ser	Arg	Leu	Asp	Leu	Asn	Val	Thr	Gln	Ala	Ser	Cys	Ala	Ile								
245						250						255											
Ser	Pro	Ser	Gln	Thr	Leu	Ile	Arg	Lys	Ser	Gln	Ala	Arg	His	Val	Gly								
260						265						270											
Ser	Arg	Gly	Gly	Pro	Ser	Glu	Arg	Ser	His	Ala	Arg	Asn	Ala	His	Phe								
275						280						285											
Arg	Arg	Thr	Ala	Ser	Phe	His	Glu	Ala	Arg	Gln	Ala	Arg	Pro	Phe	Arg								
290						295						300											
Glu	Arg	Ser	Met	Ser	Thr	Leu	Thr	Pro	Arg	Gln	Ala	Pro	Ala	Tyr	Ser								
305						310						315						320					
Ser	Arg	Thr	Arg	Thr	Cys	Glu	Gln	Ala	Glu	Asp	Arg	Phe	Arg	Pro	Gln								
325						330						335											
Ser	Arg	Gly	Ala	His	Leu	Phe	Pro	Glu	Lys	Leu	Glu	His	Phe	Gln	Glu								
340						345						350											
Ala	Ser	Gly	Thr	Arg	Gly	Pro	Leu	Asn	Pro	Leu	Pro	Lys	Ser	Tyr	Thr								
355						360						365											
Leu	Gly	Gln	Pro	Leu	Arg	Lys	Pro	Asp	Leu	Gly	Asp	His	Gln	Ala	Gly								
370						375						380											
Leu	Val	Ala	Gly	Ile	Glu	Arg	Thr	Glu	Pro	His	Arg	Ala	Arg	Arg	Gly								
385						390						395						400					
Pro	Ser	Pro	Ser	His	Lys	Ser	Val	Ser	Arg	Lys	Gln	Ser	Ser	Pro	Ile								
405						410						415											
Ser	Pro	Lys	Asp	Asn	Tyr	Gln	Arg	Val	Ser	Ser	Leu	Ser	Pro	Ser	Gln								
420						425						430											
Cys	Arg	Lys	Asp	Lys	Cys	Gln	Ser	Phe	Pro	Thr	His	Pro	Glu	Phe	Ala								
435						440						445											
Phe	Tyr	Asp	Asn	Thr	Ser	Phe	Gly	Leu	Thr	Glu	Ala	Glu	Gln	Arg	Met								
450						455						460											
Leu	Asp	Leu	Pro	Gly	Tyr	Phe	Gly	Ser	Asn	Glu	Glu	Asp	Glu	Thr	Thr								



465	470	475	480
Ser Thr Leu Ser Val Glu Lys Leu Val Ile			
	485	490	

<210> 1684  
 <211> 178  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (123)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (175)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1684  
 Met Ala Met Val Pro Gly Ala Thr Leu Arg Arg Leu Leu Ser Val Val  
 1 5 10 15  
 Leu Pro Thr Ala Ser Gln Pro Gln Leu Leu Ala Leu Leu Asp Ser Ala  
 20 25 30  
 Thr Glu Arg His Val Asp His Ala Ala Glu Ser Asp Gly Gly Ala Glu  
 35 40 45  
 Gln Ala Asp Val Gly Arg Arg Arg Lys His Gln Ser Trp Trp Gln Ala  
 50 55 60  
 Leu Asp Gly Lys Leu Arg Gly Asp Leu Ile Ser Arg Gly Leu Glu Lys  
 65 70 75 80  
 Met Leu Trp Ala Arg Lys Arg Lys Gln Ser Ile Leu Lys Lys Thr Cys  
 85 90 95  
 Leu Pro Leu Arg Glu Arg Met Ile Phe Ser Gly Lys Gly Ser Trp Pro  
 100 105 110  
 His Leu Ser Leu Glu Pro Ile Gly Glu Leu Xaa Pro Val Pro Ile Val  
 115 120 125  
 Gly Ala Glu Thr Ile Asp Leu Leu Asn Thr Gly Glu Lys Leu Phe Ile  
 130 135 140  
 Phe Arg Asn Pro Lys Glu Pro Glu Ile Ser Leu His Val Pro Pro Arg  
 145 150 155 160  
 Lys Lys Lys Asn Phe Leu Asn Ala Lys Lys Ala Met Arg Ala Xaa Gly  
 165 170 175

Met Asp



<210> 1685  
<211> 200  
<212> PRT  
<213> Homo sapiens

<400> 1685  
Met Ala Met Val Pro Gly Ala Thr Leu Arg Arg Leu Leu Ser Val Val  
1 5 10 15  
Leu Pro Thr Ala Ser Gln Pro Gln Leu Leu Ala Leu Leu Asp Ser Ala  
20 25 30  
Thr Glu Arg His Val Asp His Ala Ala Glu Ser Asp Gly Gly Ala Glu  
35 40 45  
Gln Ala Asp Val Gly Arg Arg Arg Lys His Gln Ser Trp Trp Gln Ala  
50 55 60  
Leu Asp Gly Lys Leu Arg Gly Asp Leu Ile Ser Arg Gly Leu Glu Lys  
65 70 75 80  
Met Leu Trp Ala Arg Lys Arg Lys Gln Ser Ile Leu Lys Lys Thr Cys  
85 90 95  
Leu Pro Leu Arg Glu Arg Met Ile Phe Ser Gly Lys Gly Ser Trp Pro  
100 105 110  
His Leu Ser Leu Glu Pro Ile Gly Glu Leu Gly Pro Val Pro Ile Val  
115 120 125  
Gly Ala Glu Thr Ile Asp Leu Leu Asn Thr Gly Glu Lys Leu Phe Ile  
130 135 140  
Phe Arg Asn Pro Lys Glu Pro Glu Ile Ser Leu Thr Phe Leu Gln Glu  
145 150 155 160  
Lys Glu Asp Leu Phe Glu Cys Pro Lys Gly His Glu Gly Leu Gly His  
165 170 175  
Gly Leu Ala Gln Gly Lys Asp Leu Arg Glu His Met Lys Arg Glu Gly  
180 185 190  
Met Ile Phe Ser Cys Pro Pro Val  
195 200

<210> 1686  
<211> 419  
<212> PRT  
<213> Homo sapiens

<400> 1686

Met	Ser	Cys	Ala	Gly	Arg	Ala	Gly	Pro	Ala	Arg	Leu	Ala	Ala	Leu	Ala		
1				5					10					15			
Leu	Leu	Thr	Cys	Ser	Leu	Trp	Pro	Ala	Arg	Ala	Asp	Asn	Ala	Ser	Gln		
			20					25					30				
Glu	Tyr	Tyr	Thr	Ala	Leu	Ile	Asn	Val	Thr	Val	Gln	Glu	Pro	Gly	Arg		
		35					40					45					
Gly	Ala	Pro	Leu	Thr	Phe	Arg	Ile	Asp	Arg	Gly	Arg	Tyr	Gly	Leu	Asp		
	50					55					60						
Ser	Pro	Lys	Ala	Glu	Val	Arg	Gly	Gln	Val	Leu	Ala	Pro	Leu	Pro	Leu		
65					70					75					80		
His	Gly	Val	Ala	Asp	His	Leu	Gly	Cys	Asp	Pro	Gln	Thr	Arg	Phe	Phe		
				85					90					95			
Val	Pro	Pro	Asn	Ile	Lys	Gln	Trp	Ile	Ala	Leu	Leu	Gln	Arg	Gly	Asn		
			100					105					110				
Cys	Thr	Phe	Lys	Glu	Lys	Ile	Ser	Arg	Ala	Ala	Phe	His	Asn	Ala	Val		
		115					120					125					
Ala	Val	Val	Ile	Tyr	Asn	Asn	Lys	Ser	Lys	Glu	Glu	Pro	Val	Thr	Met		
	130					135					140						
Thr	His	Pro	Gly	Thr	Gly	Asp	Ile	Ile	Ala	Val	Met	Ile	Thr	Glu	Leu		
145					150					155					160		
Arg	Gly	Lys	Asp	Ile	Leu	Ser	Tyr	Leu	Glu	Lys	Asn	Ile	Ser	Val	Gln		
			165						170					175			
Met	Thr	Ile	Ala	Val	Gly	Thr	Arg	Met	Pro	Pro	Lys	Asn	Phe	Ser	Arg		
			180					185					190				
Gly	Ser	Leu	Val	Phe	Val	Ser	Ile	Ser	Phe	Ile	Val	Leu	Met	Ile	Ile		
		195					200					205					
Ser	Ser	Ala	Trp	Leu	Ile	Phe	Tyr	Phe	Ile	Gln	Lys	Ile	Arg	Tyr	Thr		
	210					215					220						
Asn	Ala	Arg	Asp	Arg	Asn	Gln	Arg	Arg	Leu	Gly	Asp	Ala	Ala	Lys	Lys		
225					230					235					240		
Ala	Ile	Ser	Lys	Leu	Thr	Thr	Arg	Thr	Val	Lys	Lys	Gly	Asp	Lys	Glu		
			245						250					255			
Thr	Asp	Pro	Asp	Phe	Asp	His	Cys	Ala	Val	Cys	Ile	Glu	Ser	Tyr	Lys		
		260						265					270				
Gln	Asn	Asp	Val	Val	Arg	Ile	Leu	Pro	Cys	Lys	His	Val	Phe	His	Lys		
		275					280					285					
Ser	Cys	Val	Asp	Pro	Trp	Leu	Ser	Glu	His	Cys	Thr	Cys	Pro	Met	Cys		
	290					295					300						

Lys Leu Asn Ile Leu Lys Ala Leu Gly Ile Val Pro Asn Leu Pro Cys  
 305 310 315 320  
 Thr Asp Asn Val Ala Phe Asp Met Glu Arg Leu Thr Arg Thr Gln Ala  
 325 330 335  
 Val Asn Arg Arg Ser Ala Leu Gly Asp Leu Ala Gly Asp Asn Ser Leu  
 340 345 350  
 Gly Leu Glu Pro Leu Arg Thr Ser Gly Ile Ser Pro Leu Pro Gln Asp  
 355 360 365  
 Gly Glu Leu Thr Pro Arg Thr Gly Glu Ile Asn Ile Ala Val Thr Lys  
 370 375 380  
 Glu Trp Phe Ile Ile Ala Ser Phe Gly Leu Leu Ser Ala Leu Thr Leu  
 385 390 395 400  
 Cys Tyr Met Ile Ile Arg Ala Thr Ala Ser Leu Asn Ala Asn Glu Val  
 405 410 415  
 Glu Trp Phe

<210> 1687  
 <211> 419  
 <212> PRT  
 <213> Homo sapiens

<400> 1687  
 Met Ser Cys Ala Gly Arg Ala Gly Pro Ala Arg Leu Ala Ala Leu Ala  
 1 5 10 15  
 Leu Leu Thr Cys Ser Leu Trp Pro Ala Arg Ala Asp Asn Ala Ser Gln  
 20 25 30  
 Glu Tyr Tyr Thr Ala Leu Ile Asn Val Thr Val Gln Glu Pro Gly Arg  
 35 40 45  
 Gly Ala Pro Leu Thr Phe Arg Ile Asp Arg Gly Arg Tyr Gly Leu Asp  
 50 55 60  
 Ser Pro Lys Ala Glu Val Arg Gly Gln Val Leu Ala Pro Leu Pro Leu  
 65 70 75 80  
 His Gly Val Ala Asp His Leu Gly Cys Asp Pro Gln Thr Arg Phe Phe  
 85 90 95  
 Val Pro Pro Asn Ile Lys Gln Trp Ile Ala Leu Leu Gln Arg Gly Asn  
 100 105 110  
 Cys Thr Phe Lys Glu Lys Ile Ser Arg Ala Ala Phe His Asn Ala Val  
 115 120 125  
 Ala Val Val Ile Tyr Asn Asn Lys Ser Lys Glu Glu Pro Val Thr Met

[illegible]

<210> 1688  
<211> 143  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (120)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (142)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1688  
Met Ala Phe Ser Lys Leu Leu Glu Gln Ala Gly Gly Val Gly Leu Phe  
1 5 10 15  
Gln Thr Leu Gln Val Leu Thr Phe Ile Leu Pro Cys Leu Met Ile Pro  
20 25 30  
Ser Gln Met Leu Leu Glu Asn Phe Ser Ala Ala Ile Pro Gly His Arg  
35 40 45  
Cys Trp Thr His Met Leu Asp Asn Gly Ser Ala Val Ser Thr Asn Met  
50 55 60  
Thr Pro Lys Ala Leu Leu Thr Ile Ser Ile Pro Pro Gly Pro Asn Gln  
65 70 75 80  
Gly Pro His Gln Cys Arg Arg Phe Arg Gln Pro Gln Trp Gln Leu Leu  
85 90 95  
Asp Pro Asn Ala Thr Ala Thr Ser Trp Ser Glu Ala Asp Thr Glu Pro  
100 105 110  
Cys Val Asp Gly Trp Val Tyr Xaa Arg Arg Ser Ser Pro Pro Pro Ser  
115 120 125  
Trp Pro Ser Gly Thr Trp Cys Ala Ala Pro Arg Leu Glu Xaa Pro  
130 135 140

<210> 1689  
<211> 515  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (145)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE  
 <222> (151)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (168)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1689  
 Met Ala Phe Ser Lys Leu Leu Glu Gln Ala Gly Gly Val Gly Leu Phe  
 1 5 10 15  
 Gln Thr Leu Gln Val Leu Thr Phe Ile Leu Pro Cys Leu Met Ile Pro  
 20 25 30  
 Ser Gln Met Leu Leu Glu Asn Phe Ser Ala Ala Ile Pro Gly His Arg  
 35 40 45  
 Cys Trp Thr His Met Leu Asp Asn Gly Ser Ala Val Ser Thr Asn Met  
 50 55 60  
 Thr Pro Lys Ala Leu Leu Thr Ile Ser Ile Pro Pro Gly Pro Asn Gln  
 65 70 75 80  
 Gly Pro His Gln Cys Arg Arg Phe Arg Gln Pro Gln Trp Gln Leu Leu  
 85 90 95  
 Asp Pro Asn Ala Thr Ala Thr Ser Trp Ser Glu Ala Asp Thr Glu Pro  
 100 105 110  
 Cys Val Asp Gly Trp Val Tyr Asp Arg Ser Val Phe Thr Ser Thr Ile  
 115 120 125  
 Val Ala Lys Trp Asp Leu Val Cys Ser Ser Gln Gly Leu Lys Pro Leu  
 130 135 140  
 Xaa Gln Ser Ile Phe Met Xaa Gly Ile Leu Val Gly Ser Phe Ile Trp  
 145 150 155 160  
 Gly Leu Leu Ser Tyr Arg Phe Xaa Arg Lys Pro Met Leu Ser Trp Cys  
 165 170 175  
 Cys Leu Gln Leu Ala Val Ala Gly Thr Ser Thr Ile Phe Ala Pro Thr  
 180 185 190  
 Phe Val Ile Tyr Cys Gly Leu Arg Phe Val Ala Ala Phe Gly Met Ala  
 195 200 205  
 Gly Ile Phe Leu Ser Ser Leu Thr Leu Met Val Glu Trp Thr Thr Thr  
 210 215 220  
 Ser Arg Arg Ala Val Thr Met Thr Val Val Gly Cys Ala Phe Ser Ala  
 225 230 235 240  
 Gly Gln Ala Ala Leu Gly Gly Leu Ala Phe Ala Leu Arg Asp Trp Arg  
 245 250 255

Thr	Leu	Gln	Leu	Ala	Ala	Ser	Val	Pro	Phe	Phe	Ala	Ile	Ser	Leu	Ile	
			260					265					270			
Ser	Trp	Trp	Leu	Pro	Glu	Ser	Ala	Arg	Trp	Leu	Ile	Ile	Lys	Gly	Lys	
		275					280					285				
Pro	Asp	Gln	Ala	Leu	Gln	Glu	Leu	Arg	Lys	Val	Ala	Arg	Ile	Asn	Gly	
	290					295					300					
His	Lys	Glu	Ala	Lys	Asn	Leu	Thr	Ile	Glu	Val	Leu	Met	Ser	Ser	Val	
305					310					315					320	
Lys	Glu	Glu	Val	Ala	Ser	Ala	Lys	Glu	Pro	Arg	Ser	Val	Leu	Asp	Leu	
				325					330					335		
Phe	Cys	Val	Pro	Val	Leu	Arg	Trp	Arg	Ser	Cys	Ala	Met	Leu	Val	Val	
			340					345					350			
Asn	Phe	Ser	Leu	Leu	Ile	Ser	Tyr	Tyr	Gly	Leu	Val	Phe	Asp	Leu	Gln	
		355					360					365				
Ser	Leu	Gly	Arg	Asp	Ile	Phe	Leu	Leu	Gln	Ala	Leu	Phe	Gly	Ala	Val	
	370					375					380					
Asp	Phe	Leu	Gly	Arg	Ala	Thr	Thr	Ala	Leu	Leu	Leu	Ser	Phe	Leu	Gly	
385					390					395					400	
Arg	Arg	Thr	Ile	Gln	Ala	Gly	Ser	Gln	Ala	Met	Gly	Gly	Leu	Ala	Ile	
				405					410					415		
Leu	Ala	Asn	Met	Leu	Val	Pro	Gln	Val	Arg	Met	Thr	Ala	Asp	Gly	Ile	
			420					425					430			
Leu	His	Thr	Val	Gly	Arg	Leu	Gly	Ala	Met	Met	Gly	Pro	Leu	Ile	Leu	
		435					440					445				
Met	Ser	Arg	Gln	Ala	Leu	Pro	Leu	Leu	Pro	Pro	Leu	Leu	Tyr	Gly	Val	
	450					455					460					
Ile	Ser	Ile	Ala	Ser	Ser	Leu	Val	Val	Leu	Phe	Phe	Leu	Pro	Glu	Thr	
465					470					475					480	
Gln	Gly	Leu	Pro	Leu	Pro	Asp	Thr	Ile	Gln	Asp	Leu	Glu	Ser	Gln	Lys	
				485					490					495		
Ser	Thr	Ala	Ala	Gln	Gly	Asn	Arg	Gln	Glu	Ala	Val	Thr	Val	Glu	Ser	
			500					505					510			
Thr	Ser	Leu														
		515														

<210> 1690

<211> 88

<212> PRT



<213> Homo sapiens

<400> 1690

Met	Asp	Trp	Trp	Phe	Leu	Ala	Ile	Ala	Met	Ala	Leu	Leu	Trp	Leu	Thr
1				5					10					15	
Thr	Ser	Arg	Lys	Gln	Cys	Cys	Ser	Thr	Trp	Ala	Leu	Leu	Asn	Tyr	Met
			20					25					30		
Ala	Leu	Met	Ile	Leu	Ile	Gly	Glu	Asn	Pro	Asp	Leu	Leu	Val	Asn	Leu
		35					40					45			
Asp	Ser	Leu	Gln	Glu	Pro	Val	Cys	Val	Ile	Leu	Val	Lys	Gly	Leu	Leu
	50						55				60				
Phe	Gln	Arg	Ile	Ala	Ala	Asn	Leu	Gln	Pro	Leu	Val	Leu	His	His	His
65					70					75					80
Thr	Ile	Gln	Met	Met	Asn	Lys	Lys								
				85											

<210> 1691

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1691

Met	Asp	Trp	Trp	Phe	Leu	Ala	Ile	Ala	Met	Ala	Leu	Leu	Trp	Leu	Thr
1				5					10					15	
Thr	Ser	Arg	Lys	Gln	Cys	Cys	Ser	Thr	Trp	Ala	Leu	Leu	Asn	Tyr	Met
			20					25					30		
Ala	Leu	Met	Ile	Leu	Ile	Gly	Glu	Asn	Pro	Asp	Leu	Leu	Val	Asn	Leu
		35					40					45			
Asp	Ser	Leu	Gln	Glu	Pro	Val	Cys	Val	Ile	Leu	Val	Lys	Gly	Leu	Leu
	50						55				60				
Phe	Gln	Arg	Ile	Ala	Ala	Asn	Leu	Gln	Pro	Leu	Gln	Arg	Cys	Gln	Gly
65					70					75					80
Ser															

<210> 1692

<211> 462

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (148)



<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (204)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (292)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (303)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1692

Met	Val	Asp	Tyr	Leu	Gln	Lys	Ala	Val	Leu	Leu	Asn	Leu	Gly	Thr	Ile
1				5					10					15	

Glu	Leu	Tyr	Gly	Ser	Asn	Asp	Pro	Tyr	Arg	Arg	Glu	Pro	Arg	Ser	Pro
			20					25					30		

Arg	Lys	Ser	Arg	Gln	Pro	Ser	Gly	Ala	Gly	Leu	Cys	Asp	Ile	Ser	Glu
		35					40					45			

Gly	Thr	Val	Val	Pro	Glu	Asp	Arg	Cys	Lys	Ser	Pro	Thr	Ser	Ala	Lys
	50					55					60				

Met	Ser	Arg	Lys	Leu	Ser	Leu	Pro	Thr	Asp	Leu	Lys	Pro	Asp	Leu	Asp
65					70					75					80

Val	Lys	Asp	Asn	Ser	Phe	Ser	Arg	Ser	Arg	Ser	Ser	Ser	Val	Thr	Ser
			85						90					95	

Ile	Asp	Lys	Glu	Ser	Arg	Glu	Ala	Ile	Ser	Ala	Leu	His	Phe	Cys	Glu
			100					105					110		

Thr	Phe	Thr	Arg	Lys	Thr	Asp	Ser	Ser	Pro	Ser	Pro	Cys	Leu	Trp	Val
	115					120						125			

Gly	Thr	Thr	Leu	Gly	Thr	Val	Leu	Val	Ile	Ala	Leu	Asn	Leu	Pro	Pro
	130					135					140				

Gly	Gly	Glu	Xaa	Xaa	Leu	Leu	Gln	Pro	Val	Ile	Val	Ser	Pro	Ser	Gly
145					150					155					160

Thr	Ile	Leu	Arg	Leu	Lys	Gly	Ala	Ile	Leu	Arg	Met	Ala	Phe	Leu	Asp
				165					170					175	

Thr	Thr	Gly	Cys	Leu	Ile	Pro	Pro	Ala	Tyr	Glu	Pro	Trp	Arg	Glu	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

180						185						190					
Asn	Val	Pro	Glu	Glu	Lys	Asp	Glu	Lys	Glu	Lys	Xaa	Lys	Lys	Arg	Arg		
		195					200					205					
Pro	Val	Ser	Val	Ser	Pro	Ser	Ser	Ser	Gln	Glu	Ile	Ser	Glu	Asn	Gln		
	210						215					220					
Tyr	Ala	Val	Ile	Cys	Ser	Glu	Lys	Gln	Ala	Lys	Val	Ile	Ser	Leu	Pro		
225					230					235					240		
Thr	Gln	Asn	Cys	Ala	Tyr	Lys	Gln	Asn	Ile	Thr	Glu	Thr	Ser	Phe	Val		
				245					250					255			
Leu	Arg	Gly	Asp	Ile	Val	Ala	Leu	Ser	Asn	Ser	Ile	Cys	Leu	Ala	Cys		
			260					265					270				
Phe	Cys	Ala	Asn	Gly	His	Ile	Met	Thr	Phe	Ser	Leu	Pro	Ser	Leu	Arg		
		275					280					285					
Pro	Leu	Leu	Xaa	Val	Tyr	Tyr	Leu	Pro	Leu	Thr	Asn	Met	Arg	Xaa	Ala		
	290						295					300					
Arg	Thr	Phe	Cys	Phe	Thr	Asn	Asn	Gly	Gln	Ala	Leu	Tyr	Leu	Val	Ser		
305					310					315					320		
Pro	Thr	Glu	Ile	Gln	Arg	Leu	Thr	Tyr	Ser	Gln	Glu	Thr	Cys	Glu	Asn		
				325					330					335			
Leu	Gln	Glu	Met	Leu	Gly	Glu	Leu	Phe	Thr	Pro	Val	Glu	Thr	Pro	Glu		
			340					345					350				
Ala	Pro	Asn	Arg	Gly	Phe	Phe	Lys	Gly	Leu	Phe	Gly	Gly	Gly	Ala	Gln		
		355					360					365					
Ser	Leu	Asp	Arg	Glu	Glu	Leu	Phe	Gly	Glu	Ser	Ser	Ser	Gly	Lys	Ala		
	370						375					380					
Ser	Arg	Ser	Leu	Ala	Gln	His	Ile	Pro	Gly	Pro	Gly	Gly	Ile	Glu	Gly		
385					390					395					400		
Val	Lys	Gly	Ala	Ala	Ser	Gly	Val	Val	Gly	Glu	Leu	Ala	Arg	Ala	Arg		
				405					410					415			
Leu	Ala	Leu	Asp	Glu	Arg	Gly	Gln	Lys	Leu	Gly	Asp	Leu	Glu	Glu	Arg		
			420					425					430				
Thr	Ala	Ala	Met	Leu	Ser	Ser	Ala	Glu	Ser	Phe	Ser	Lys	His	Ala	His		
			435				440					445					
Glu	Ile	Met	Leu	Lys	Tyr	Lys	Asp	Lys	Lys	Trp	Tyr	Gln	Phe				
	450						455					460					

<210> 1693

<211> 112

<212> PRT  
<213> Homo sapiens

<400> 1693

Met	Leu	Ile	Ser	Gly	Trp	Ala	Arg	Trp	Leu	Met	Pro	Leu	Val	Pro	Ala	
1				5					10					15		
Leu	Trp	Glu	Ala	Glu	Ala	Gly	Glu	Ser	Gly	Val	Gln	Asp	Gln	Pro	Gly	
			20					25					30			
Gln	Cys	Gly	Glu	Thr	Leu	Ser	Leu	Leu	Lys	Ile	Lys	Lys	Lys	Lys	Lys	
		35					40					45				
Lys	Lys	Trp	Leu	Ile	Ser	Glu	Ser	Tyr	Ser	Gly	Leu	Asn	Ser	Val	Ile	
	50					55					60					
Gln	Pro	Lys	Leu	Ile	Thr	Leu	Cys	Tyr	Leu	Trp	Glu	Pro	His	Leu	Lys	
	65				70					75					80	
Ser	Lys	Asp	Pro	Asp	Thr	Cys	Leu	Ile	Leu	Trp	Gln	Gly	Ser	Asn	Glu	
				85					90					95		
Ser	Asn	Lys	Met	Leu	Val	Lys	Val	Arg	Thr	Gly	Ser	Ile	Leu	Asn	Thr	
			100					105						110		

<210> 1694  
<211> 82  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1694

Met	Gly	Leu	Gln	Ser	Arg	Leu	Ser	Gln	Pro	Cys	His	Cys	Arg	His	Leu	
1				5					10					15		
Gly	Leu	Gly	Asn	Ser	Val	Val	Gly	Thr	Val	Leu	Phe	Leu	Val	Gly	Cys	
			20					25					30			
Leu	Val	Ala	Ser	Leu	Pro	Pro	Pro	Thr	Arg	Cys	Gln	Xaa	His	Cys	Ser	
		35					40					45				
Pro	Gln	Pro	Pro	Ala	Pro	Val	Val	Thr	Ile	Val	Ser	Lys	His	Cys	Gln	
	50					55					60					

Met Val Gln Gly Lys Gly Lys Ile Ala Pro Val Xaa Lys Ser Thr Ala  
65 70 75 80

Val Lys

<210> 1695  
<211> 82  
<212> PRT  
<213> Homo sapiens

<400> 1695  
Met Gly Leu Gln Ser Arg Leu Ser Gln Pro Cys His Cys Arg His Leu  
1 5 10 15

Gly Leu Gly Asn Ser Val Val Gly Thr Val Leu Phe Leu Val Gly Cys  
20 25 30

Leu Val Ala Ser Leu Pro Pro Pro Thr Arg Cys Gln Gly His Cys Ser  
35 40 45

Pro Gln Pro Pro Ala Pro Val Val Thr Ile Val Ser Lys His Cys Gln  
50 55 60

Met Val Gln Gly Lys Gly Lys Ile Ala Pro Val Glu Lys Ser Thr Ala  
65 70 75 80

Val Lys

<210> 1696  
<211> 193  
<212> PRT  
<213> Homo sapiens

<400> 1696  
Met Gln Leu Gly Thr Leu Leu Thr Phe Phe His Glu Leu Val Gln Thr  
1 5 10 15

Ala Leu Pro Ser Gly Ser Cys Val Asp Thr Leu Leu Lys Asp Leu Cys  
20 25 30

Lys Met Tyr Thr Thr Leu Thr Ala Leu Val Arg Tyr Tyr Leu Gln Val  
35 40 45

Cys Gln Ser Ser Gly Gly Ile Pro Lys Asn Met Glu Lys Leu Val Lys  
50 55 60

Leu Ser Gly Ser His Leu Thr Pro Leu Cys Tyr Ser Phe Ile Ser Tyr  
65 70 75 80

Val Gln Asn Lys Ser Lys Ser Leu Asn Tyr Thr Gly Glu Lys Lys Glu

				85					90				95		
Lys	Pro	Ala	Ala	Val	Ala	Thr	Ala	Met	Ala	Arg	Val	Leu	Arg	Glu	Thr
			100					105					110		
Lys	Pro	Ile	Pro	Asn	Leu	Ile	Phe	Ala	Ile	Glu	Gln	Tyr	Glu	Lys	Phe
		115					120					125			
Leu	Ile	His	Leu	Ser	Lys	Lys	Ser	Lys	Val	Asn	Leu	Met	Gln	His	Met
	130					135					140				
Lys	Leu	Ser	Thr	Ser	Arg	Asp	Phe	Lys	Ile	Lys	Gly	Asn	Ile	Leu	Asp
145					150					155					160
Met	Val	Leu	Arg	Glu	Asp	Gly	Glu	Asp	Glu	Asn	Glu	Glu	Gly	Thr	Ala
				165					170					175	
Ser	Glu	His	Gly	Gly	Gln	Asn	Lys	Glu	Pro	Ala	Lys	Lys	Lys	Arg	Lys
			180					185					190		

Lys

<210> 1697  
 <211> 193  
 <212> PRT  
 <213> Homo sapiens

<400> 1697

Met	Gln	Leu	Gly	Thr	Leu	Leu	Thr	Phe	Phe	His	Glu	Leu	Val	Gln	Thr
1				5					10					15	
Ala	Leu	Pro	Ser	Gly	Ser	Cys	Val	Asp	Thr	Leu	Leu	Lys	Asp	Leu	Cys
			20					25					30		
Lys	Met	Tyr	Thr	Thr	Leu	Thr	Ala	Leu	Val	Arg	Tyr	Tyr	Leu	Gln	Val
		35					40					45			
Cys	Gln	Ser	Ser	Gly	Gly	Ile	Pro	Lys	Asn	Met	Glu	Lys	Leu	Val	Lys
	50					55					60				
Leu	Ser	Gly	Ser	His	Leu	Thr	Pro	Leu	Cys	Tyr	Ser	Phe	Ile	Ser	Tyr
65					70					75					80
Val	Gln	Asn	Lys	Ser	Lys	Ser	Leu	Asn	Tyr	Thr	Gly	Glu	Lys	Lys	Glu
				85					90					95	
Lys	Pro	Ala	Ala	Val	Ala	Thr	Ala	Met	Ala	Arg	Val	Leu	Arg	Glu	Thr
			100					105						110	
Lys	Pro	Ile	Pro	Asn	Leu	Ile	Phe	Ala	Ile	Glu	Gln	Tyr	Glu	Lys	Phe
		115					120					125			
Leu	Ile	His	Leu	Ser	Lys	Lys	Ser	Lys	Val	Asn	Leu	Met	Gln	His	Met
	130					135						140			

Lys Leu Ser Thr Ser Arg Asp Phe Lys Ile Lys Gly Asn Ile Leu Asp  
145 150 155 160

Met Val Leu Arg Glu Asp Gly Glu Asp Glu Asn Glu Glu Gly Thr Ala  
165 170 175

Ser Glu His Gly Gly Gln Asn Lys Glu Pro Ala Lys Lys Lys Arg Lys  
180 185 190

Lys

<210> 1698  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 1698  
Met Val Cys Asp Ser Leu Pro Arg His Asp Phe His Pro Ala Arg Leu  
1 5 10 15

His Pro Thr Arg Phe Leu  
20

<210> 1699  
<211> 271  
<212> PRT  
<213> Homo sapiens

<400> 1699  
Met Leu Ser Glu Lys His Leu Ile Ser Val Cys Ala Asp Asn Asn His  
1 5 10 15

Val Arg Thr Trp Ser Val Thr Arg Phe Arg Gly Met Ile Ser Thr Gln  
20 25 30

Pro Gly Ser Thr Pro Leu Ala Ser Phe Lys Ile Leu Ala Leu Glu Ser  
35 40 45

Ala Asp Gly His Gly Gly Cys Ser Ala Gly Asn Asp Ile Gly Pro Tyr  
50 55 60

Gly Glu Arg Asp Asp Gln Gln Val Phe Ile Gln Lys Val Val Pro Ser  
65 70 75 80

Ala Ser Gln Leu Phe Val Arg Leu Ser Ser Thr Gly Gln Arg Val Cys  
85 90 95

Ser Val Arg Ser Val Asp Gly Ser Pro Thr Thr Ala Phe Thr Val Leu  
100 105 110

Glu Cys Glu Gly Ser Arg Arg Leu Gly Ser Arg Pro Arg Arg Tyr Leu

115					120					125						
Leu	Thr	Gly	Gln	Ala	Asn	Gly	Ser	Leu	Ala	Met	Trp	Asp	Leu	Thr	Thr	
130					135					140						
Ala	Met	Asp	Gly	Leu	Gly	Gln	Ala	Pro	Ala	Gly	Gly	Leu	Thr	Glu	Gln	
145					150					155					160	
Glu	Leu	Met	Glu	Gln	Leu	Glu	His	Cys	Glu	Leu	Ala	Pro	Pro	Ala	Pro	
165					170					175						
Ser	Ala	Pro	Ser	Trp	Gly	Cys	Leu	Pro	Ser	Pro	Ser	Pro	Arg	Ile	Ser	
180					185					190						
Leu	Thr	Ser	Leu	His	Ser	Ala	Ser	Ser	Asn	Thr	Ser	Leu	Ser	Gly	His	
195					200					205						
Arg	Gly	Ser	Pro	Ser	Pro	Pro	Gln	Ala	Glu	Ala	Arg	Arg	Arg	Gly	Gly	
210					215					220						
Gly	Ser	Phe	Val	Glu	Arg	Cys	Gln	Glu	Leu	Val	Arg	Ser	Gly	Pro	Asp	
225					230					235					240	
Leu	Arg	Arg	Pro	Pro	Thr	Pro	Ala	Pro	Trp	Pro	Ser	Ser	Gly	Leu	Gly	
245					250					255						
Thr	Pro	Leu	Thr	Pro	Pro	Lys	Met	Lys	Leu	Asn	Glu	Thr	Ser	Phe		
260					265					270						

<210> 1700  
 <211> 148  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (125)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1700  
 Met Arg Ser Ser Cys Val Leu Leu Thr Ala Leu Val Ala Leu Ala Ala  
 1 5 10 15  
 Tyr Tyr Val Tyr Ile Pro Leu Pro Gly Ser Val Ser Asp Pro Trp Lys  
 20 25 30  
 Leu Met Leu Leu Asp Ala Thr Phe Arg Gly Ala Gln Gln Val Ser Asn  
 35 40 45  
 Leu Ile His Tyr Leu Gly Leu Ser His His Leu Leu Ala Leu Asn Phe

50		55		60
Ile Ile Val Ser Phe Gly Xaa Lys Ser Ala Trp Ser Ser Ala Gln Val				
65		70		75 80
Lys Val Thr Asp Thr Asp Phe Asp Gly Val Glu Val Arg Val Phe Glu				
		85		90 95
Gly Pro Pro Lys Pro Glu Glu Pro Leu Lys Arg Ser Val Val Tyr Ile				
		100		105 110
His Gly Gly Gly Trp Ala Leu Ala Ser Ala Lys Ile Xaa Tyr Tyr Asp				
		115		120 125
Glu Leu Cys Thr Ala Met Ala Glu Glu Leu Asn Ala Ala Leu Phe Pro				
		130		135 140
Leu Asn Thr Gly				
145				

<210> 1701  
 <211> 148  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (125)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1701  
 Met Arg Ser Ser Cys Val Leu Leu Thr Ala Leu Val Ala Leu Ala Ala  
 1 5 10 15  
 Tyr Tyr Val Tyr Ile Pro Leu Pro Gly Ser Val Ser Asp Pro Trp Lys  
 20 25 30  
 Leu Met Leu Leu Asp Ala Thr Phe Arg Gly Ala Gln Gln Val Ser Asn  
 35 40 45  
 Leu Ile His Tyr Leu Gly Leu Ser His His Leu Leu Ala Leu Asn Phe  
 50 55 60  
 Ile Ile Val Ser Phe Gly Xaa Lys Ser Ala Trp Ser Ser Ala Gln Val  
 65 70 75 80  
 Lys Val Thr Asp Thr Asp Phe Asp Gly Val Glu Val Arg Val Phe Glu  
 85 90 95  
 Gly Pro Pro Lys Pro Glu Glu Pro Leu Lys Arg Ser Val Val Tyr Ile



100	105	110
His Gly Gly Gly Trp Ala Leu Ala Ser Ala Lys Ile Xaa Tyr Tyr Asp		
115	120	125
Glu Leu Cys Thr Ala Met Ala Glu Glu Leu Asn Ala Ala Leu Phe Pro		
130	135	140
Leu Asn Thr Gly		
145		

<210> 1702  
 <211> 408  
 <212> PRT  
 <213> Homo sapiens

<220>.  
 <221> SITE  
 <222> (223)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1702
Met Arg Ser Ser Cys Val Leu Leu Thr Ala Leu Val Ala Leu Ala Ala
1 5 10 15
Tyr Tyr Val Tyr Ile Pro Leu Pro Gly Ser Val Ser Asp Pro Trp Lys
20 25 30
Leu Met Leu Leu Asp Ala Thr Phe Arg Gly Ala Gln Gln Val Ser Asn
35 40 45
Leu Ile His Tyr Leu Gly Leu Ser His His Leu Leu Ala Leu Asn Phe
50 55 60
Ile Ile Val Ser Phe Gly Gln Lys Ser Ala Trp Ser Ser Ala Gln Val
65 70 75 80
Lys Val Thr Asp Thr Asp Phe Asp Gly Val Glu Val Arg Val Phe Glu
85 90 95
Gly Pro Pro Lys Pro Glu Glu Pro Leu Lys Arg Ser Val Val Tyr Ile
100 105 110
His Gly Gly Gly Trp Ala Leu Ala Ser Ala Lys Ile Ser Tyr Tyr Asp
115 120 125
Glu Leu Cys Thr Ala Met Ala Glu Glu Leu Asn Ala Val Ile Val Ser
130 135 140
Ile Glu Tyr Arg Leu Val Pro Lys Val Tyr Phe Pro Glu Gln Ile His
145 150 155 160
Asp Val Val Arg Ala Thr Lys Tyr Phe Leu Lys Pro Glu Val Leu Gln
165 170 175

Lys Tyr Met Val Asp Pro Gly Arg Ile Cys Ile Ser Gly Asp Ser Ala  
 180 185 190  
 Gly Gly Asn Leu Ala Ala Ala Leu Gly Gln Gln Phe Thr Gln Asp Ala  
 195 200 205  
 Ser Leu Lys Asn Lys Leu Lys Leu Gln Ala Leu Ile Tyr Pro Xaa Leu  
 210 215 220  
 Gln Ala Leu Asp Phe Asn Thr Pro Ser Tyr Gln Gln Asn Val Asn Thr  
 225 230 235 240  
 Pro Ile Leu Pro Arg Tyr Val Met Val Lys Tyr Trp Val Asp Tyr Phe  
 245 250 255  
 Lys Gly Asn Tyr Asp Phe Val Gln Ala Met Ile Val Asn Asn His Thr  
 260 265 270  
 Ser Leu Asp Val Glu Glu Ala Ala Ala Val Arg Ala Arg Leu Asn Trp  
 275 280 285  
 Thr Ser Leu Leu Pro Ala Ser Phe Thr Lys Asn Tyr Lys Pro Val Val  
 290 295 300  
 Gln Thr Thr Gly Asn Ala Arg Ile Val Gln Glu Leu Pro Gln Leu Leu  
 305 310 315 320  
 Asp Ala Arg Ser Ala Pro Leu Ile Ala Asp Gln Ala Val Leu Gln Leu  
 325 330 335  
 Leu Pro Lys Thr Tyr Ile Leu Thr Cys Glu His Asp Val Leu Arg Asp  
 340 345 350  
 Asp Gly Ile Met Tyr Ala Lys Arg Leu Glu Ser Ala Gly Val Glu Val  
 355 360 365  
 Thr Leu Asp His Phe Glu Asp Gly Phe His Gly Cys Met Ile Phe Thr  
 370 375 380  
 Ser Trp Pro Thr Asn Phe Ser Val Gly Ile Arg Thr Arg Asn Ser Tyr  
 385 390 395 400  
 Ile Lys Trp Leu Asp Gln Asn Leu  
 405

<210> 1703  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 1703  
 Met Met Phe Cys Phe Val Leu Phe Leu Arg Trp Ser Leu Ala Leu Leu  
 1 5 10 15  
 Pro Gly Trp Leu Ala Val Ala Arg Ser Arg Leu Thr Ala Ile Ser Cys

	20		25		30										
Phe	Leu	Gly	Leu	Ser	Asp	Ser	Pro	Ala	Leu	Ala	Ser	Arg	Val	Ala	Gly
		35					40				45				
Thr	Thr	Gly	Ala	His	His	His	Ala	Arg	Leu	Val	Phe	Cys	Ile	Leu	Val
		50				55					60				
Glu	Thr	Val	Ser	Pro	Cys	Trp	Pro	Gly	Trp	Ser	Arg	Ser	Pro	Asp	Phe
		65			70					75					80
Val	Ile	Cys	Leu	Pro	Gln	Thr	Pro								
					85										

<210> 1704  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 1704															
Met	Met	Phe	Cys	Phe	Val	Leu	Phe	Leu	Arg	Trp	Ser	Leu	Ala	Leu	Leu
1				5					10					15	
Pro	Gly	Trp	Leu	Ala	Val	Ala	Arg	Ser	Arg	Leu	Thr	Ala	Ile	Ser	Cys
			20					25					30		
Phe	Leu	Gly	Leu	Ser	Asp	Ser	Pro	Ala	Leu	Ala	Ser	Arg	Val	Ala	Gly
		35					40				45				
Thr	Thr	Gly	Ala	His	His	His	Ala	Arg	Leu	Val	Phe	Cys	Ile	Leu	Val
		50				55					60				
Glu	Thr	Val	Ser	Pro	Cys	Trp	Pro	Gly	Trp	Ser	Arg	Ser	Pro	Asp	Phe
		65			70					75					80
Val	Ile	Cys	Leu	Pro	Gln	Thr	Pro								
					85										

<210> 1705  
 <211> 94  
 <212> PRT  
 <213> Homo sapiens

<400> 1705															
Met	Ile	Gly	Tyr	Arg	Leu	Cys	Leu	His	Leu	Leu	Ser	Leu	Leu	Gly	Phe
1				5					10					15	
Gln	Pro	Leu	Pro	Met	Gly	Leu	Cys	Arg	Val	Arg	Glu	Gln	Lys	Phe	Lys
			20					25					30		
Gln	Phe	Ser	Gly	Leu	Ser	His	Phe	Ser	Phe	Arg	Ile	Ser	Pro	Val	Thr
		35					40					45			

Phe Pro Ser Tyr Val His Ala Asp Ser Gln Pro Thr Arg Asp Lys Trp  
     50                    55                    60  
 Val Pro Trp Asp Leu Ser Ser Phe Thr Cys Met Cys Ala Glu Ala Ser  
     65                    70                    75                    80  
 Lys Ser Ala Arg Asn Val Trp Thr Ala Leu Gln Thr Pro Leu  
                     85                    90

<210> 1706  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 1706  
 Ser Gln His Phe Gly Arg Pro Arg Trp Lys Asp Cys Leu Lys Pro Gly  
     1                    5                    10                    15  
 Val Arg Asp Gln Pro Gly Gln His Ser Lys Thr Pro Ser Leu Cys Lys  
                     20                    25                    30  
 Lys Lys Gly Ile Ile Leu Tyr Phe Leu Leu Ile Arg Phe Ile Cys Val  
                     35                    40                    45  
 Ser Asn Leu His Leu Gln Phe Asp Phe Phe Ser Asp Leu  
     50                    55                    60

<210> 1707  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1707  
 Val Ile Phe Phe Phe Phe Phe Ser Cys Arg Glu Arg Val Cys Val Ala  
     1                    5                    10                    15  
 Gln Ala Gly Leu Asn Phe Met Ala Ser Ser Tyr Ser Ala Ser Ala Ser  
                     20                    25                    30  
 Arg Ser Ala Gly Asn Ile Gly Met Ser His His Thr Gln Pro Leu Cys  
                     35                    40                    45  
 Leu Leu Ser Phe Ser Ile Ile Ile Asn Leu Phe Met Phe Ile His Ser  
     50                    55                    60  
 Pro Val Asp Glu Xaa Leu Gly Cys Phe Gln Phe Trp Ala Val Thr Asn  
     65                    70                    75                    80

Lys Ala Pro Gly Asn Ile Cys Val Gln Lys Lys Lys Lys Lys Lys Lys  
85 90 95

Lys Lys Lys Lys Lys  
100

<210> 1708  
<211> 123  
<212> PRT  
<213> Homo sapiens

<400> 1708  
Met Ala Trp Pro Asn Val Phe Gln Arg Gly Ser Leu Leu Ser Gln Phe  
1 5 10 15  
Ser His His His Val Val Val Phe Leu Leu Thr Phe Phe Ser Tyr Ser  
20 25 30  
Leu Leu His Ala Ser Arg Lys Thr Phe Ser Asn Val Lys Val Ser Ile  
35 40 45  
Ser Glu Gln Trp Thr Pro Ser Ala Phe Asn Thr Ser Val Glu Leu Pro  
50 55 60  
Leu Glu Ile Trp Ser Ser Asn His Leu Phe Pro Ser Ala Glu Lys Ala  
65 70 75 80  
Thr Leu Phe Leu Gly Thr Leu Asp Thr Ile Phe Leu Phe Ser Tyr Ala  
85 90 95  
Val Gly Leu Phe Ile Ser Gly Ile Val Gly Asp Arg Leu Asn Leu Arg  
100 105 110  
Trp Val Leu Leu Leu Ala Cys Ala Leu Leu His  
115 120

<210> 1709  
<211> 160  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1709  
Leu Pro Asn Cys Tyr Leu Xaa Asp Thr Ile Glu Gly Thr Pro Ala Gly  
1 5 10 15  
Thr Gly Pro Glu Phe Ala Ala Ala Ser Thr Ser Leu Lys Glu Cys Arg  
20 25 30

Ala	Val	Ile	Ile	Ala	Ser	Arg	Gly	Gln	Pro	Val	Trp	Pro	Ala	Leu	Leu
	35						40					45			
Asp	Val	His	Ala	Val	Asp	Asp	Phe	Val	Val	Ser	Cys	Asn	Leu	Ala	His
	50				55						60				
Arg	Arg	Ala	Thr	Ile	Pro	Glu	Glu	Asp	Cys	Ser	Lys	Leu	Leu	Pro	Ser
65					70					75				80	
Phe	Pro	Asp	His	Gly	Asp	Pro	Leu	Thr	Val	Phe	Ser	Pro	Ser	Asn	Val
			85						90					95	
Phe	Asp	Leu	Pro	Ser	Glu	Arg	Leu	Val	Leu	Ile	Leu	Gln	Gln	Val	Leu
		100						105					110		
Leu	Leu	Arg	Gly	Ile	Pro	Asp	Pro	Gln	Leu	Pro	Arg	His	Ile	Ser	Gly
		115					120					125			
Gly	Asn	Val	Glu	Ser	Ala	Gly	Arg	Ile	Leu	Gly	His	His	His	Leu	Met
	130					135					140				
Gly	Val	Leu	Cys	Val	Asp	Val	Ser	Lys	Gly	Trp	Val	Val	Asp	Val	Pro
145					150					155					160

<210> 1710  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 1710  
 His His His Leu Met Gly Val Leu Cys Val Asp Val Ser Lys Gly Trp  
 1 5 10 15  
 Val Val Asp Val Pro  
 20

<210> 1711  
 <211> 185  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (163)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1711  
 Met Ala Trp Pro Asn Val Phe Gln Arg Gly Ser Leu Leu Ser Gln Phe  
 1 5 10 15

Ser	His	His	His	Val	Val	Val	Phe	Leu	Leu	Thr	Phe	Phe	Ser	Tyr	Ser			
				20				25					30					
Leu	Leu	His	Ala	Ser	Arg	Lys	Thr	Phe	Ser	Asn	Val	Lys	Val	Ser	Ile			
		35					40					45						
Ser	Glu	Gln	Trp	Thr	Pro	Ser	Ala	Phe	Asn	Thr	Ser	Val	Glu	Leu	Pro			
	50					55					60							
Leu	Glu	Ile	Trp	Ser	Ser	Asn	His	Leu	Phe	Pro	Ser	Ala	Glu	Lys	Ala			
65					70					75					80			
Thr	Leu	Phe	Leu	Gly	Thr	Leu	Asp	Thr	Ile	Phe	Leu	Phe	Ser	Tyr	Ala			
				85					90					95				
Val	Gly	Leu	Phe	Ile	Ser	Gly	Ile	Val	Gly	Asp	Arg	Leu	Asn	Leu	Arg			
			100					105					110					
Trp	Val	Leu	Ser	Phe	Gly	Met	Cys	Ser	Ser	Ala	Leu	Val	Val	Phe	Val			
	115						120					125						
Phe	Gly	Ala	Leu	Thr	Glu	Trp	Leu	Arg	Phe	Tyr	Asn	Lys	Trp	Leu	Tyr			
	130					135					140							
Cys	Cys	Leu	Trp	Ile	Val	Asn	Gly	Leu	Leu	Gln	Ser	Thr	Gly	Trp	Pro			
145					150					155					160			
Cys	Val	Xaa	Ala	Val	Met	Gly	Asn	Trp	Phe	Gly	Lys	Ala	Gly	Tyr	Ala			
			165					170						175				
Thr	Ser	Phe	Leu	Ser	Asn	Phe	Ser	Val										
			180					185										

<210> 1712  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (13)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1712  
 Met Arg Val Ser Cys Ser Arg Ser Cys Cys Ser Leu Xaa Xaa Ile Ser  
 1 5 10 15

Leu Ser Leu Arg Leu Val Ala Ser Cys Leu Pro Cys Cys Leu Cys Leu  
 20 25 30





Phe	Met	Gly	Leu	Ser	Ile	Leu	Gly	Pro	Ala	Gly	Leu	Arg	Pro	Thr	Ser		
50						55					60						
Ser	Ser	Ser	Ser	Ser	Phe	Pro	Tyr	Pro	Ser	Arg	His	Phe	Gly	Gln	Gly		
65					70					75					80		
Trp	Glu	Val	Val	Arg	Met	Gly	Ala	Met	Pro	Gln	Asn	Ser	Ser	Leu	Ser		
				85					90					95			
Thr	Ala	Val	Pro	Ser	Gly	Met	Gly	Asp	Gly	Cys	Gln	Val	Phe	Trp	Pro		
			100					105					110				
Pro	Ala	Pro	Cys	Arg	Ser	Gln	Leu	Ser	Pro	Pro	Ala	Ser	Gly	Ser	Phe		
		115					120					125					
Pro	Leu	Phe	Ser	Pro	Leu	Gln	Ala	Pro	Pro	Ser	Pro	Ser	Ser	Asp	Pro		
	130					135					140						
Ala	Gln	Ala	Pro	Gly	Ser	Cys	Gly	Ser	Ser	Ser	Gln	Pro	Arg	His	Ala		
145					150					155					160		
Pro	Cys	Ser	Pro	Pro	Leu	Pro	Leu	Ala	Ala	Pro	Ser	Ser					
				165					170								

<210> 1715  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens

<400> 1715																	
Met	Arg	Val	Ser	Cys	Ser	Arg	Ser	Cys	Cys	Ser	Leu	Pro	Pro	Ile	Ser		
1				5				10						15			
Leu	Ser	Leu	Arg	Leu	Val	Ala	Ser	Cys	Leu	Pro	Cys	Cys	Leu	Cys	Leu		
			20					25					30				
Ser	Ala	Ala	Pro	Arg	Met	Gln	Glu	Glu	Pro	Gly	His	Leu	Arg	Pro	Ser		
		35					40					45					
Arg	Ala	Arg	Pro	Leu	Glu	Gly	Pro	Ser	Trp	Asp	Ser	Pro	Ser	Leu	Ala		
	50					55					60						
Pro	Pro	Ala	Ser	Ala	Gln	Arg	Pro	Leu	Pro	Pro	Pro	Val	Ser	Arg	Ile		
65					70					75					80		
Leu	Pro	Ala	Thr	Ser	Gly	Arg	Ala	Gly	Arg	Trp	Cys	Gly	Trp	Ala	Pro		
				85					90					95			
Cys	Pro	Lys	Thr	Ala	Ala												
			100														

<210> 1716  
 <211> 180

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (140)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1716  
Met Pro Ala Pro Ala Arg Ser Cys Gln Arg Ala Ala Leu Ser Leu Trp  
1 5 10 15  
Ala Ser Gly Leu Gly Trp Leu Ser Ala Gln Pro Thr Val Ala Phe Arg  
20 25 30  
Gly Ser Ser Trp Asp Trp Glu Pro Pro Gln Gly Gln Ala Asp Gly Val  
35 40 45  
Arg Phe Val Leu Gly Leu Val Leu Pro Met Leu Gly Gly Gly Gly Ala  
50 55 60  
Pro Arg Thr Asp Gln Pro Cys Phe Ser Cys Asn Ala Val Thr Leu Ser  
65 70 75 80  
Leu Asn Thr Trp Ile His Val Trp Pro Gly Leu Ala Gly Ser Arg Ser  
85 90 95  
Pro Ala Arg Val Gly Ser His Gly Pro Ala Leu Glu Pro Pro Ser Gly  
100 105 110  
Pro Gly Ala Ala Glu Ala Ala Ser Glu Gly Leu Pro Arg Pro Ala Phe  
115 120 125  
His Arg Trp Gly Ala Gln Pro Ser Lys Ala Ala Xaa Thr Pro Pro Arg  
130 135 140  
Pro Val Cys Gln Gly Ala Gly His Asn Pro Ala Gly Pro Arg Thr Gly  
145 150 155 160  
Leu Gln Ala Ser Pro Cys Ala Pro Ala Gly Arg Pro Cys Ser Arg Glu  
165 170 175  
Glu Val Leu Gly  
180

<210> 1717  
<211> 131  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (24)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (122)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (123)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1717  
 Glu Ala Lys Gly Thr Ala Met Gln Arg Pro Trp Gly Arg Thr Ala Pro  
   1                  5                  10                  15  
 Gly Met Arg Glu Glu Gln Ser Xaa Glu Arg Arg Ala Gly Arg Ala Gly  
                   20                  25                  30  
 Pro Cys Gly Pro Gln Gly Gly Leu Gly His Leu Pro Arg Gly Ser Gly  
                   35                  40                  45  
 Ala Pro Gly Cys Val Ser Arg Trp Glu Arg Gln Gly Arg Ile Cys Gly  
                   50                  55                  60  
 Asp Leu Thr Arg Ala Gly Glu Ala Glu Thr Arg Val Gln Pro Pro Pro  
   65                  70                  75                  80  
 Pro Lys Ala Gly Pro Ser Gln Arg Arg Gly Arg Ala Gly Gln Glu Val  
                   85                  90                  95  
 Ser Gly Cys Leu Leu Gly Leu Val Trp Phe Cys Phe Val Leu Phe Ile  
                   100                  105                  110  
 Val Val Lys Tyr Lys Ile Tyr Arg Leu Xaa Xaa Lys Lys Lys Lys Lys  
                   115                  120                  125  
 Gly Arg Pro  
           130

<210> 1718  
 <211> 180  
 <212> PRT  
 <213> Homo sapiens

<400> 1718  
 Met Pro Ala Pro Ala Arg Ser Cys Gln Arg Ala Ala Leu Ser Leu Trp  
   1                  5                  10                  15  
 Ala Ser Gly Leu Gly Trp Leu Ser Ala Gln Pro Thr Val Ala Phe Arg  
                   20                  25                  30  
 Gly Ser Ser Trp Asp Trp Glu Pro Pro Gln Gly Gln Ala Asp Gly Val  
                   35                  40                  45  
 Arg Phe Val Leu Gly Leu Val Leu Pro Met Leu Gly Gly Gly Gly Ala  
                   50                  55                  60

Pro	Arg	Thr	Asp	Gln	Pro	Cys	Phe	Ser	Cys	Asn	Ala	Val	Thr	Leu	Ser
65					70					75					80
Leu	Asn	Thr	Trp	Ile	His	Val	Trp	Pro	Gly	Leu	Ala	Gly	Ser	Arg	Ser
				85					90					95	
Pro	Ala	Arg	Val	Gly	Ser	His	Gly	Pro	Ala	Leu	Glu	Pro	Pro	Ser	Gly
			100					105						110	
Pro	Gly	Ala	Ala	Glu	Ala	Ala	Ser	Glu	Gly	Leu	Pro	Arg	Pro	Ala	Phe
		115					120					125			
His	Arg	Trp	Gly	Ala	Gln	Pro	Ser	Lys	Ala	Ala	Glu	Thr	Pro	Pro	Arg
	130					135					140				
Pro	Val	Cys	Gln	Gly	Ala	Gly	His	Asn	Pro	Ala	Gly	Pro	Arg	Thr	Gly
145					150					155					160
Leu	Gln	Ala	Ser	Pro	Cys	Ala	Pro	Ala	Gly	Arg	Pro	Cys	Ser	Arg	Glu
				165					170					175	
Glu	Val	Leu	Gly												
			180												

<210> 1719  
 <211> 177  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (120)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (124)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (126)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (148)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (171)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1719

Met Val Gly Lys Ile Lys Arg Leu Lys Lys Ser Ala Phe Val Val Leu  
1 5 10 15

Ile Leu Leu Ile Thr Ala Lys Leu Leu Val Leu Pro Leu Leu Cys Arg  
20 25 30

Glu Met Val Glu Leu Leu Asp Lys Gly Asp Ser Val Val Asn His Thr  
35 40 45

Ser Leu Ser Asn Tyr Ala Phe Leu Tyr Gly Val Phe Pro Val Ala Pro  
50 55 60

Gly Val Ala Ile Phe Ala Thr Gln Phe Asn Met Glu Val Glu Ile Ile  
65 70 75 80

Thr Ser Gly Met Val Ile Ser Thr Phe Val Ser Ala Pro Ile Met Tyr  
85 90 95

Val Ser Ala Trp Leu Leu Thr Phe Pro Thr Met Asp Pro Lys Pro Leu  
100 105 110

Ala Tyr Ala Ile Gln Asn Val Xaa Phe Asp Ile Xaa Ile Xaa Ser Leu  
115 120 125

Ile Ser Leu Ile Trp Ser Leu Ala Ile Leu Leu Leu Ser Lys Lys Tyr  
130 135 140

Lys Gln Leu Xaa His Met Leu Thr Thr Asn Leu Leu Ile Ala Gln Ser  
145 150 155 160

Ile Val Cys Ala Gly Met Met Ile Trp Asn Xaa Xaa Lys Glu Lys Asn  
165 170 175

Phe

<210> 1720

<211> 447

<212> PRT

<213> Homo sapiens

<400> 1720

Thr Thr Thr Lys Phe Ala Ala Ala Ser Thr Phe His Pro Ala Ser Lys  
1 5 10 15

Ser Asn Ile Lys Lys Val Trp Met Ala Glu Gln Lys Ile Ser Tyr Asp  
20 25 30

Lys Lys Lys Gln Glu Glu Leu Met Gln Gln Tyr Leu Lys Glu Gln Glu

35	40	45															
Ser	Tyr	Asp	Asn	Arg	Leu	Leu	Met	Gly	Asp	Glu	Arg	Val	Lys	Asn	Gly		
50						55					60						
Leu	Asn	Phe	Met	Tyr	Glu	Ala	Pro	Pro	Gly	Ala	Lys	Lys	Glu	Asn	Lys		
65					70					75					80		
Glu	Lys	Glu	Glu	Thr	Glu	Gly	Glu	Thr	Glu	Tyr	Lys	Phe	Glu	Trp	Gln		
				85					90					95			
Lys	Gly	Ala	Pro	Arg	Glu	Lys	Tyr	Ala	Lys	Asp	Asp	Met	Asn	Ile	Arg		
			100					105					110				
Asp	Gln	Pro	Phe	Gly	Ile	Gln	Val	Arg	Asn	Val	Arg	Cys	Ile	Lys	Cys		
		115					120					125					
His	Lys	Trp	Gly	His	Val	Asn	Thr	Asp	Arg	Glu	Cys	Pro	Leu	Phe	Gly		
	130					135					140						
Leu	Ser	Gly	Ile	Asn	Ala	Ser	Ser	Val	Pro	Thr	Asp	Gly	Ser	Gly	Pro		
145					150					155					160		
Ser	Met	His	Pro	Ser	Glu	Leu	Ile	Ala	Glu	Met	Arg	Asn	Ser	Gly	Phe		
				165					170					175			
Ala	Leu	Lys	Arg	Asn	Val	Leu	Gly	Arg	Asn	Leu	Thr	Ala	Asn	Asp	Pro		
			180					185					190				
Ser	Gln	Glu	Tyr	Val	Ala	Ser	Glu	Gly	Glu	Glu	Asp	Pro	Glu	Val	Glu		
	195						200					205					
Phe	Leu	Lys	Ser	Leu	Thr	Thr	Lys	Gln	Lys	Gln	Lys	Leu	Leu	Arg	Lys		
	210					215					220						
Leu	Asp	Arg	Leu	Glu	Lys	Lys	Lys	Lys	Lys	Lys	Asp	Arg	Lys	Lys	Lys		
225					230					235					240		
Lys	Phe	Gln	Lys	Ser	Arg	Ser	Lys	His	Lys	Lys	His	Lys	Ser	Ser	Ser		
				245					250					255			
Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Thr	Glu	Thr	Ser	Glu		
			260					265					270				
Ser	Ser	Ser	Glu	Ser	Glu	Ser	Asn	Asn	Lys	Glu	Lys	Lys	Ile	Gln	Arg		
		275					280					285					
Lys	Lys	Arg	Lys	Lys	Asn	Lys	Cys	Ser	Gly	His	Asn	Asn	Ser	Asp	Ser		
	290					295					300						
Glu	Glu	Lys	Asp	Lys	Ser	Lys	Lys	Arg	Lys	Leu	His	Glu	Glu	Leu	Ser		
305					310					315					320		
Ser	Ser	His	His	Asn	Arg	Glu	Lys	Ala	Lys	Glu	Lys	Pro	Arg	Phe	Leu		
				325				330						335			
Lys	His	Glu	Ser	Ser	Arg	Glu	Asp	Ser	Lys	Trp	Ser	His	Ser	Asp	Ser		

340		345		350
Asp Lys Lys Ser Arg Thr His Lys His Ser Pro Glu Lys Arg Gly Ser	355	360		365
Glu Arg Lys Glu Gly Ser Ser Arg Ser His Gly Arg Glu Glu Arg Ser	370	375		380
Arg Arg Ser Arg Ser Arg Ser Pro Gly Ser Tyr Lys Gln Arg Glu Thr	385	390		395
Arg Lys Arg Ala Gln Arg Asn Pro Gly Glu Glu Gln Ser Arg Arg Asn		405		410
				415
Asp Ser Arg Ser His Gly Thr Asp Leu Tyr Arg Gly Glu Lys Met Tyr	420	425		430
Arg Glu His Pro Gly Gly Thr His Thr Lys Val Thr Gln Arg Glu	435	440		445

<210> 1721  
 <211> 177  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (98)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (134)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (148)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (171)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (172)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1721  
 Met Val Gly Lys Ile Lys Arg Leu Lys Lys Ser Ala Phe Val Val Leu  
 1 5 10 15

Ile Leu Leu Ile Thr Ala Lys Leu Leu Val Leu Pro Leu Leu Cys Arg

	20		25		30												
Glu	Met	Val	Glu	Leu	Leu	Asp	Lys	Gly	Asp	Ser	Val	Val	Asn	His	Thr		
	35						40					45					
Ser	Leu	Ser	Asn	Tyr	Ala	Phe	Leu	Tyr	Gly	Val	Phe	Pro	Val	Ala	Pro		
	50					55					60						
Gly	Val	Ala	Ile	Phe	Ala	Thr	Gln	Phe	Asn	Met	Glu	Val	Glu	Ile	Ile		
	65				70					75					80		
Thr	Ser	Gly	Met	Val	Ile	Ser	Thr	Phe	Val	Ser	Ala	Pro	Ile	Met	Tyr		
				85					90					95			
Val	Xaa	Ala	Trp	Leu	Leu	Thr	Phe	Pro	Thr	Met	Asp	Pro	Lys	Pro	Leu		
			100					105					110				
Ala	Tyr	Ala	Ile	Gln	Asn	Val	Ser	Phe	Asp	Ile	Ser	Ile	Val	Ser	Leu		
		115					120					125					
Ile	Ser	Leu	Ile	Trp	Xaa	Leu	Ala	Ile	Leu	Leu	Leu	Ser	Lys	Lys	Tyr		
	130					135					140						
Lys	Gln	Leu	Xaa	His	Met	Leu	Thr	Thr	Asn	Leu	Leu	Ile	Ala	Gln	Ser		
	145				150					155					160		
Ile	Val	Cys	Ala	Gly	Met	Met	Ile	Trp	Asn	Xaa	Xaa	Lys	Glu	Lys	Asn		
				165					170					175			

Phe

<210> 1722  
 <211> 227  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (171)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1722  

Met	Val	Gly	Lys	Ile	Lys	Arg	Leu	Lys	Lys	Ser	Ala	Phe	Val	Val	Leu		
	1			5				10					15				
Ile	Leu	Leu	Ile	Thr	Ala	Lys	Leu	Leu	Val	Leu	Pro	Leu	Leu	Cys	Arg		
			20				25					30					
Glu	Met	Val	Glu	Leu	Leu	Asp	Lys	Gly	Asp	Ser	Val	Val	Asn	His	Thr		
	35						40					45					
Ser	Leu	Ser	Asn	Tyr	Ala	Phe	Leu	Tyr	Gly	Val	Phe	Pro	Val	Ala	Pro		
	50					55					60						



Gly	Val	Ala	Ile	Phe	Ala	Thr	Gln	Phe	Asn	Met	Glu	Val	Glu	Ile	Ile	65	70	75	80
Thr	Ser	Gly	Met	Val	Ile	Ser	Thr	Phe	Val	Ser	Ala	Pro	Ile	Met	Tyr	85	90	95	
Val	Ser	Ala	Trp	Leu	Leu	Thr	Phe	Pro	Thr	Met	Asp	Pro	Lys	Pro	Leu	100	105	110	
Ala	Tyr	Ala	Ile	Gln	Asn	Val	Ser	Phe	Asp	Ile	Ser	Ile	Val	Ser	Leu	115	120	125	
Ile	Ser	Leu	Ile	Trp	Ser	Leu	Ala	Ile	Leu	Leu	Leu	Ser	Lys	Lys	Tyr	130	135	140	
Lys	Gln	Leu	Pro	His	Met	Leu	Thr	Thr	Asn	Leu	Leu	Ile	Ala	Gln	Ser	145	150	155	160
Ile	Val	Cys	Ala	Gly	Met	Met	Ile	Trp	Asn	Xaa	Val	Lys	Glu	Lys	Asn	165	170	175	
Phe	Val	Gly	Gln	Ile	Leu	Val	Phe	Val	Leu	Leu	Tyr	Ser	Ser	Leu	Tyr	180	185	190	
Ser	Thr	Tyr	Leu	Trp	Thr	Gly	Leu	Leu	Ala	Ile	Ser	Leu	Phe	Leu	Leu	195	200	205	
Lys	Lys	Arg	Glu	Arg	Val	Gln	Ile	Pro	Val	Gly	Ile	Ile	Ile	Ile	Ser	210	215	220	
Gly	Trp	Gly														225			

<210> 1723  
 <211> 227  
 <212> PRT  
 <213> Homo sapiens

<400> 1723

Met	Val	Gly	Lys	Ile	Lys	Arg	Leu	Lys	Lys	Ser	Ala	Phe	Val	Val	Leu	1	5	10	15
Ile	Leu	Leu	Ile	Thr	Ala	Lys	Leu	Leu	Val	Leu	Pro	Leu	Leu	Cys	Arg	20	25	30	
Glu	Met	Val	Glu	Leu	Leu	Asp	Lys	Gly	Asp	Ser	Val	Val	Asn	His	Thr	35	40	45	
Ser	Leu	Ser	Asn	Tyr	Ala	Phe	Leu	Tyr	Gly	Val	Phe	Pro	Val	Ala	Pro	50	55	60	
Gly	Val	Ala	Ile	Phe	Ala	Thr	Gln	Phe	Asn	Met	Glu	Val	Glu	Ile	Ile	65	70	75	80
Thr	Ser	Gly	Met	Val	Ile	Ser	Thr	Phe	Val	Ser	Ala	Pro	Ile	Met	Tyr				

85					90					95					
Val	Ser	Ala	Trp	Leu	Leu	Thr	Phe	Pro	Thr	Met	Asp	Pro	Lys	Pro	Leu
			100					105					110		
Ala	Tyr	Ala	Ile	Gln	Asn	Val	Ser	Phe	Asp	Ile	Ser	Ile	Val	Ser	Leu
		115					120					125			
Ile	Ser	Leu	Ile	Trp	Ser	Leu	Ala	Ile	Leu	Leu	Leu	Ser	Lys	Lys	Tyr
		130				135					140				
Lys	Gln	Leu	Pro	His	Met	Leu	Thr	Thr	Asn	Leu	Leu	Ile	Ala	Gln	Ser
145					150					155					160
Ile	Val	Cys	Ala	Gly	Met	Met	Ile	Trp	Asn	Phe	Val	Lys	Glu	Lys	Asn
				165					170					175	
Phe	Val	Gly	Gln	Ile	Leu	Val	Phe	Val	Leu	Leu	Tyr	Ser	Ser	Leu	Tyr
			180					185					190		
Ser	Thr	Tyr	Leu	Trp	Thr	Gly	Leu	Leu	Ala	Ile	Ser	Leu	Phe	Leu	Leu
		195					200					205			
Lys	Lys	Arg	Glu	Arg	Val	Gln	Ile	Pro	Val	Gly	Ile	Ile	Ile	Ile	Ser
		210				215					220				
Gly	Trp	Gly													
225															

<210> 1724  
 <211> 87  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (61)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (82)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1724  
 Met Gln Trp Arg Ala Leu Val Leu Gly Leu Val Leu Leu Arg Leu Gly  
 1 5 10 15  
 Leu His Gly Val Leu Trp Leu Val Phe Gly Leu Gly Pro Ser Met Gly  
 20 25 30  
 Phe Tyr Gln Arg Phe Pro Leu Ser Phe Gly Phe Gln Arg Leu Arg Ser  
 35 40 45  
 Pro Asp Gly Pro Ala Ser Pro Thr Phe Gly Ala Arg Xaa Pro Ala Trp

50		55		60											
Gly	Gly	Ile	Arg	Ala	Val	Val	Ala	Cys	Asn	Arg	Arg	Gly	Thr	Gly	Gln
65					70				75						80
Arg	Xaa	Thr	Arg	Ala	Lys	Leu									
					85										

<210> 1725  
 <211> 146  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (115)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (123)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (140)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1725  
 Met Gln Trp Arg Ala Leu Val Leu Gly Leu Val Leu Leu Arg Leu Gly  
 1 5 10 15  
 Leu His Gly Val Leu Trp Leu Val Phe Gly Leu Gly Pro Ser Met Gly  
 20 25 30  
 Phe Tyr Gln Arg Phe Pro Leu Ser Phe Gly Phe Gln Arg Leu Arg Ser  
 35 40 45  
 Pro Asp Gly Pro Ala Ser Pro Thr Ser Gly Pro Val Gly Arg Pro Gly  
 50 55 60  
 Gly Val Ser Gly Pro Ser Trp Leu Gln Pro Pro Gly Thr Gly Ala Ala  
 65 70 75 80  
 Gln Ser Pro Arg Lys Ala Pro Arg Arg Pro Gly Pro Gly Met Cys Gly  
 85 90 95  
 Pro Ala Asn Trp Gly Tyr Val Leu Gly Arg Pro Gly Arg Gly Pro Asp  
 100 105 110  
 Glu Tyr Xaa Glu Ala Ala Thr Ala Ala Pro Xaa Leu Arg Asn Leu Arg  
 115 120 125  
 Ala Arg Cys Pro Glu Leu Ala Arg Gly Met Val Xaa Phe Trp Ala Thr  
 130 135 140

Thr Leu  
145

<210> 1726  
<211> 405  
<212> PRT  
<213> Homo sapiens

<400> 1726  
Met Gln Trp Arg Ala Leu Val Leu Gly Leu Val Leu Leu Arg Leu Gly  
1 5 10 15  
Leu His Gly Val Leu Trp Leu Val Phe Gly Leu Gly Pro Ser Met Gly  
20 25 30  
Phe Tyr Gln Arg Phe Pro Leu Ser Phe Gly Phe Gln Arg Leu Arg Ser  
35 40 45  
Pro Asp Gly Pro Ala Ser Pro Thr Ser Gly Pro Val Gly Arg Pro Gly  
50 55 60  
Gly Val Ser Gly Pro Ser Trp Leu Gln Pro Pro Gly Thr Gly Ala Ala  
65 70 75 80  
Gln Ser Pro Arg Lys Ala Pro Arg Arg Pro Gly Pro Gly Met Cys Gly  
85 90 95  
Pro Ala Asn Trp Gly Tyr Val Leu Gly Gly Arg Gly Arg Gly Pro Asp  
100 105 110  
Glu Tyr Glu Lys Arg Tyr Ser Gly Ala Phe Pro Pro Gln Leu Arg Ala  
115 120 125  
Gln Met Arg Asp Leu Ala Arg Gly Met Phe Val Phe Gly Tyr Asp Asn  
130 135 140  
Tyr Met Ala His Ala Phe Pro Gln Asp Glu Leu Asn Pro Ile His Cys  
145 150 155 160  
Arg Gly Arg Gly Pro Asp Arg Gly Asp Pro Ser Asn Leu Asn Ile Asn  
165 170 175  
Asp Val Leu Gly Asn Tyr Ser Leu Thr Leu Val Asp Ala Leu Asp Thr  
180 185 190  
Leu Ala Ile Met Gly Asn Ser Ser Glu Phe Gln Lys Ala Val Lys Leu  
195 200 205  
Val Ile Asn Thr Val Ser Phe Asp Lys Asp Ser Thr Val Gln Val Phe  
210 215 220  
Glu Ala Thr Ile Arg Val Leu Gly Ser Leu Leu Ser Ala His Arg Ile  
225 230 235 240

Ile	Thr	Asp	Ser	Lys	Gln	Pro	Phe	Gly	Asp	Met	Thr	Ile	Lys	Asp	Tyr			
				245					250					255				
Asp	Asn	Glu	Leu	Leu	Tyr	Met	Ala	His	Asp	Leu	Ala	Val	Arg	Leu	Leu			
			260					265					270					
Pro	Ala	Phe	Glu	Asn	Thr	Lys	Thr	Gly	Ile	Pro	Tyr	Pro	Arg	Val	Asn			
		275					280					285						
Leu	Lys	Thr	Gly	Val	Pro	Pro	Asp	Thr	Asn	Asn	Glu	Thr	Cys	Thr	Ala			
	290					295					300							
Gly	Ala	Gly	Ser	Leu	Leu	Val	Glu	Phe	Gly	Ile	Leu	Ser	Arg	Leu	Leu			
305					310					315					320			
Gly	Asp	Ser	Thr	Phe	Glu	Trp	Val	Ala	Arg	Arg	Ala	Val	Lys	Ala	Leu			
				325					330					335				
Trp	Asn	Leu	Arg	Ser	Asn	Asp	Thr	Gly	Leu	Leu	Gly	Val	Ala	Pro	Phe			
			340					345					350					
Leu	Ala	Ile	Gly	Thr	Ala	His	Cys	Leu	Val	Pro	Phe	Ser	Phe	His	Leu			
		355					360					365						
Leu	Trp	Ala	Leu	Pro	Pro	Phe	Tyr	Ser	Ser	Thr	Gln	Leu	Thr	Thr	Gln			
	370					375					380							
Gln	Glu	Leu	Cys	Gln	Leu	Tyr	Leu	Ile	Ser	Leu	Cys	Asp	Pro	Leu	Gln			
385					390					395					400			
Arg	Gly	Cys	Met	Val														
				405														

<210> 1727  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (116)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (120)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1727  
 Met Ile Leu Trp Leu Asp Trp Ala Leu Phe Leu Leu Val Phe Pro Gly  
 1 5 10 15

Gln Phe Phe Cys Trp Phe Cys Leu Gly Ser Leu Met Arg Leu Gln Val  
 20 25 30

Ala Ala Gly Ser Ala Ser Val Trp Gly Ser Ala Gly Met Thr Trp Pro  
35 40 45

Leu Ser Ala Cys Gly Pro Leu Ser Ser Met Met Val Ser Gly Phe Gln  
50 55 60

Ala Ser Lys Pro Gln Cys Thr Ser Ile Tyr Pro Ala Phe Ala Cys Ile  
65 70 75 80

Ala Leu Ala His Val Ser Leu Ala Lys Thr Asp His Val Ala Lys Leu  
85 90 95

Arg Val Ser Val Gly Arg Val Tyr Thr Ser Ala Trp Ile Leu Lys Gly  
100 105 110

Met Ile His Xaa Gly Pro Leu Xaa  
115 120

<210> 1728  
<211> 53  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1728  
Lys Tyr Ser Tyr Cys Ser His Leu His Phe Xaa Met Asn Glu Ser Ala  
1 5 10 15

Leu Phe Cys Ser Asn Phe His Trp Lys Pro Val Gly Ser Glu Arg Leu  
20 25 30

Trp Pro Pro Leu Ile Ile Tyr Asp Leu Lys Pro Ala Cys Asn Arg Glu  
35 40 45

Pro Leu Gln Ser Leu  
50

<210> 1729  
<211> 120  
<212> PRT  
<213> Homo sapiens

<400> 1729  
Met Ile Leu Trp Leu Asp Trp Ala Leu Phe Leu Leu Val Phe Pro Gly  
1 5 10 15

Gln Phe Phe Cys Trp Phe Cys Leu Gly Ser Leu Met Arg Leu Gln Val  
20 25 30

Ala	Ala	Gly	Ser	Ala	Ser	Val	Trp	Gly	Ser	Ala	Gly	Met	Thr	Trp	Pro
		35					40					45			
Leu	Ser	Ala	Cys	Gly	Pro	Leu	Ser	Ser	Met	Met	Val	Ser	Gly	Phe	Gln
	50					55					60				
Ala	Ser	Lys	Pro	Gln	Cys	Thr	Ser	Ile	Tyr	Pro	Ala	Phe	Ala	Cys	Ile
	65				70					75					80
Ala	Leu	Ala	His	Val	Ser	Leu	Ala	Lys	Thr	Asp	His	Val	Ala	Lys	Leu
			85						90					95	
Arg	Val	Ser	Val	Gly	Arg	Val	Tyr	Thr	Ser	Ala	Trp	Ile	Leu	Lys	Gly
			100					105					110		
Met	Ile	His	Trp	Gly	Pro	Leu	Leu								
		115					120								

<210> 1730  
 <211> 485  
 <212> PRT  
 <213> Homo sapiens

<400> 1730

Met	Leu	Pro	Thr	Phe	Leu	Leu	Met	Asn	Leu	Leu	Ser	Leu	Ala	Gly	Asp
1				5					10					15	
Val	Ala	Leu	Gln	Gln	Leu	Val	His	Leu	Glu	Gln	Ala	Val	Ser	Gly	Glu
			20					25					30		
Leu	Cys	Arg	Arg	Arg	Val	Leu	Arg	Glu	Glu	Gln	Glu	His	Lys	Thr	Lys
		35					40					45			
Asp	Pro	Lys	Glu	Lys	Asn	Thr	Ser	Ser	Glu	Thr	Thr	Met	Glu	Glu	Glu
	50					55					60				
Leu	Gly	Leu	Val	Gly	Ala	Thr	Ala	Asp	Asp	Thr	Glu	Ala	Glu	Leu	Ile
	65				70					75					80
Arg	Gly	Ile	Cys	Glu	Met	Glu	Leu	Leu	Asp	Gly	Lys	Gln	Thr	Leu	Ala
			85						90					95	
Ala	Phe	Val	Pro	Leu	Leu	Leu	Lys	Val	Cys	Asn	Asn	Pro	Gly	Leu	Tyr
			100					105					110		
Ser	Asn	Pro	Asp	Leu	Ser	Ala	Ala	Ala	Ser	Leu	Ala	Leu	Gly	Lys	Phe
		115					120					125			
Cys	Met	Ile	Ser	Ala	Thr	Phe	Cys	Asp	Ser	Gln	Leu	Arg	Leu	Leu	Phe
	130					135					140				
Thr	Met	Leu	Glu	Lys	Ser	Pro	Leu	Pro	Ile	Val	Arg	Ser	Asn	Leu	Met
	145				150					155					160
Val	Ala	Thr	Gly	Asp	Leu	Ala	Ile	Arg	Phe	Pro	Asn	Leu	Val	Asp	Pro



				165				170					175						
Trp	Thr	Pro	His	Leu	Tyr	Ala	Arg	Leu	Arg	Asp	Pro	Ala	Gln	Gln	Val				
			180					185					190						
Arg	Lys	Thr	Ala	Gly	Leu	Val	Met	Thr	His	Leu	Ile	Leu	Lys	Asp	Met				
		195					200					205							
Val	Lys	Val	Lys	Gly	Gln	Val	Ser	Glu	Met	Ala	Val	Leu	Leu	Ile	Asp				
	210					215					220								
Pro	Glu	Pro	Gln	Ile	Ala	Ala	Leu	Ala	Lys	Asn	Phe	Phe	Asn	Glu	Leu				
225					230					235						240			
Ser	His	Lys	Gly	Asn	Ala	Ile	Tyr	Asn	Leu	Leu	Pro	Asp	Ile	Ile	Ser				
				245				250						255					
Arg	Leu	Ser	Asp	Pro	Glu	Leu	Gly	Val	Glu	Glu	Glu	Pro	Phe	His	Thr				
			260					265						270					
Ile	Met	Lys	Gln	Leu	Leu	Ser	Tyr	Ile	Thr	Lys	Asp	Lys	Gln	Thr	Glu				
		275					280					285							
Ser	Leu	Val	Glu	Lys	Leu	Cys	Gln	Arg	Phe	Arg	Thr	Ser	Arg	Thr	Glu				
	290					295					300								
Arg	Gln	Gln	Arg	Asp	Leu	Ala	Tyr	Cys	Val	Ser	Gln	Leu	Pro	Leu	Thr				
305					310					315					320				
Glu	Arg	Gly	Leu	Arg	Lys	Met	Leu	Asp	Asn	Phe	Asp	Cys	Phe	Gly	Asp				
				325					330					335					
Lys	Leu	Ser	Asp	Glu	Ser	Ile	Phe	Ser	Ala	Phe	Leu	Ser	Val	Val	Gly				
			340					345					350						
Lys	Leu	Arg	Arg	Gly	Ala	Lys	Pro	Glu	Gly	Lys	Ala	Ile	Ile	Asp	Glu				
		355					360					365							
Phe	Glu	Gln	Lys	Leu	Arg	Ala	Cys	His	Thr	Arg	Gly	Leu	Asp	Gly	Ile				
	370					375					380								
Lys	Glu	Leu	Glu	Ile	Gly	Gln	Ala	Gly	Ser	Gln	Arg	Ala	Pro	Ser	Ala				
385					390					395					400				
Lys	Lys	Pro	Ser	Thr	Gly	Ser	Arg	Tyr	Gln	Pro	Leu	Ala	Ser	Thr	Ala				
				405					410					415					
Ser	Asp	Asn	Asp	Phe	Val	Thr	Pro	Glu	Pro	Arg	Arg	Thr	Thr	Arg	Arg				
			420					425					430						
His	Pro	Asn	Thr	Gln	Gln	Arg	Ala	Ser	Lys	Lys	Lys	Pro	Lys	Val	Val				
		435					440					445							
Phe	Ser	Ser	Asp	Glu	Ser	Ser	Glu	Glu	Asp	Leu	Ser	Ala	Glu	Met	Thr				
	450					455					460								
Glu	Asp	Glu	Thr	Pro	Lys	Lys	Thr	Thr	Pro	Ile	Leu	Arg	Ala	Ser	Ala				



465		470		475		480
Arg	Arg	His	Arg	Ser		
				485		

<210> 1731  
 <211> 485  
 <212> PRT  
 <213> Homo sapiens

<400> 1731															
Met	Leu	Pro	Thr	Phe	Leu	Leu	Met	Asn	Leu	Leu	Ser	Leu	Ala	Gly	Asp
1				5					10					15	
Val	Ala	Leu	Gln	Gln	Leu	Val	His	Leu	Glu	Gln	Ala	Val	Ser	Gly	Glu
			20					25					30		
Leu	Cys	Arg	Arg	Arg	Val	Leu	Arg	Glu	Glu	Gln	Glu	His	Lys	Thr	Lys
		35					40					45			
Asp	Pro	Lys	Glu	Lys	Asn	Thr	Ser	Ser	Glu	Thr	Thr	Met	Glu	Glu	Glu
	50					55					60				
Leu	Gly	Leu	Val	Gly	Ala	Thr	Ala	Asp	Asp	Thr	Glu	Ala	Glu	Leu	Ile
65					70					75					80
Arg	Gly	Ile	Cys	Glu	Met	Glu	Leu	Leu	Asp	Gly	Lys	Gln	Thr	Leu	Ala
			85						90					95	
Ala	Phe	Val	Pro	Leu	Leu	Leu	Lys	Val	Cys	Asn	Asn	Pro	Gly	Leu	Tyr
			100					105					110		
Ser	Asn	Pro	Asp	Leu	Ser	Ala	Ala	Ala	Ser	Leu	Ala	Leu	Gly	Lys	Phe
		115					120					125			
Cys	Met	Ile	Ser	Ala	Thr	Phe	Cys	Asp	Ser	Gln	Leu	Arg	Leu	Leu	Phe
	130					135					140				
Thr	Met	Leu	Glu	Lys	Ser	Pro	Leu	Pro	Ile	Val	Arg	Ser	Asn	Leu	Met
145					150					155					160
Val	Ala	Thr	Gly	Asp	Leu	Ala	Ile	Arg	Phe	Pro	Asn	Leu	Val	Asp	Pro
				165					170					175	
Trp	Thr	Pro	His	Leu	Tyr	Ala	Arg	Leu	Arg	Asp	Pro	Ala	Gln	Gln	Val
			180					185					190		
Arg	Lys	Thr	Ala	Gly	Leu	Val	Met	Thr	His	Leu	Ile	Leu	Lys	Asp	Met
		195					200					205			
Val	Lys	Val	Lys	Gly	Gln	Val	Ser	Glu	Met	Ala	Val	Leu	Leu	Ile	Asp
	210					215					220				
Pro	Glu	Pro	Gln	Ile	Ala	Ala	Leu	Ala	Lys	Asn	Phe	Phe	Asn	Glu	Leu
225					230					235					240

Ser His Lys Gly Asn Ala Ile Tyr Asn Leu Leu Pro Asp Ile Ile Ser  
 245 250 255  
 Arg Leu Ser Asp Pro Glu Leu Gly Val Glu Glu Glu Pro Phe His Thr  
 260 265 270  
 Ile Met Lys Gln Leu Leu Ser Tyr Ile Thr Lys Asp Lys Gln Thr Glu  
 275 280 285  
 Ser Leu Val Glu Lys Leu Cys Gln Arg Phe Arg Thr Ser Arg Thr Glu  
 290 295 300  
 Arg Gln Gln Arg Asp Leu Ala Tyr Cys Val Ser Gln Leu Pro Leu Thr  
 305 310 315 320  
 Glu Arg Gly Leu Arg Lys Met Leu Asp Asn Phe Asp Cys Phe Gly Asp  
 325 330 335  
 Lys Leu Ser Asp Glu Ser Ile Phe Ser Ala Phe Leu Ser Val Val Gly  
 340 345 350  
 Lys Leu Arg Arg Gly Ala Lys Pro Glu Gly Lys Ala Ile Ile Asp Glu  
 355 360 365  
 Phe Glu Gln Lys Leu Arg Ala Cys His Thr Arg Gly Leu Asp Gly Ile  
 370 375 380  
 Lys Glu Leu Glu Ile Gly Gln Ala Gly Ser Gln Arg Ala Pro Ser Ala  
 385 390 395 400  
 Lys Lys Pro Ser Thr Gly Ser Arg Tyr Gln Pro Leu Ala Ser Thr Ala  
 405 410 415  
 Ser Asp Asn Asp Phe Val Thr Pro Glu Pro Arg Arg Thr Thr Arg Arg  
 420 425 430  
 His Pro Asn Thr Gln Gln Arg Ala Ser Lys Lys Lys Pro Lys Val Val  
 435 440 445  
 Phe Ser Ser Asp Glu Ser Ser Glu Glu Asp Leu Ser Ala Glu Met Thr  
 450 455 460  
 Glu Asp Glu Thr Pro Lys Lys Thr Thr Pro Ile Leu Arg Ala Ser Ala  
 465 470 475 480  
 Arg Arg His Arg Ser  
 485

<210> 1732  
 <211> 485  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1732

Met	Leu	Pro	Thr	Phe	Leu	Leu	Met	Asn	Leu	Leu	Ser	Leu	Ala	Gly	Asp			
1				5					10					15				
Val	Ala	Leu	Gln	Gln	Leu	Val	His	Leu	Glu	Gln	Ala	Val	Ser	Gly	Glu			
			20					25					30					
Leu	Cys	Arg	Arg	Arg	Val	Leu	Arg	Glu	Glu	Gln	Glu	His	Lys	Thr	Lys			
		35					40					45						
Asp	Pro	Lys	Glu	Lys	Asn	Thr	Ser	Ser	Glu	Thr	Thr	Met	Glu	Glu	Glu			
	50					55					60							
Leu	Gly	Leu	Val	Gly	Ala	Thr	Ala	Asp	Asp	Thr	Glu	Ala	Glu	Leu	Ile			
65					70					75					80			
Arg	Gly	Ile	Cys	Glu	Met	Glu	Leu	Leu	Asp	Gly	Lys	Gln	Thr	Leu	Ala			
				85					90					95				
Ala	Phe	Val	Pro	Leu	Leu	Leu	Lys	Val	Cys	Asn	Asn	Pro	Gly	Leu	Tyr			
			100					105					110					
Ser	Asn	Pro	Asp	Leu	Ser	Ala	Ala	Ala	Ser	Leu	Ala	Leu	Gly	Lys	Phe			
		115					120					125						
Cys	Met	Ile	Ser	Ala	Thr	Phe	Cys	Asp	Ser	Gln	Leu	Arg	Leu	Leu	Phe			
	130					135					140							
Thr	Met	Leu	Glu	Lys	Ser	Pro	Leu	Pro	Ile	Val	Arg	Ser	Asn	Leu	Met			
145					150					155					160			
Val	Ala	Thr	Gly	Asp	Leu	Ala	Ile	Arg	Phe	Pro	Asn	Leu	Val	Asp	Pro			
			165						170					175				
Trp	Thr	Pro	His	Leu	Tyr	Ala	Arg	Leu	Arg	Asp	Pro	Ala	Gln	Gln	Val			
			180					185					190					
Arg	Lys	Thr	Ala	Gly	Leu	Val	Met	Thr	His	Leu	Ile	Leu	Lys	Asp	Met			
		195					200					205						
Val	Lys	Val	Lys	Gly	Gln	Val	Ser	Glu	Met	Ala	Val	Leu	Leu	Ile	Asp			
	210					215					220							
Pro	Glu	Pro	Gln	Ile	Ala	Ala	Leu	Ala	Lys	Asn	Phe	Phe	Asn	Glu	Leu			
225					230					235					240			
Ser	His	Lys	Gly	Asn	Ala	Ile	Tyr	Asn	Leu	Leu	Pro	Asp	Ile	Ile	Ser			
			245						250				255					
Arg	Leu	Ser	Asp	Pro	Glu	Leu	Gly	Val	Glu	Glu	Glu	Pro	Phe	His	Thr			
			260					265					270					
Ile	Met	Lys	Gln	Leu	Leu	Ser	Tyr	Ile	Thr	Lys	Asp	Lys	Gln	Thr	Glu			
	275						280					285						
Ser	Leu	Val	Glu	Lys	Leu	Cys	Gln	Arg	Phe	Arg	Thr	Ser	Arg	Thr	Glu			
	290					295					300							

Arg Gln Gln Arg Asp Leu Ala Tyr Cys Val Ser Gln Leu Pro Leu Thr  
 305 310 315 320  
 Glu Arg Gly Leu Arg Lys Met Leu Asp Asn Phe Asp Cys Phe Gly Asp  
 325 330 335  
 Lys Leu Ser Asp Glu Ser Ile Phe Ser Ala Phe Leu Ser Val Val Gly  
 340 345 350  
 Lys Leu Arg Arg Gly Ala Lys Pro Glu Gly Lys Ala Ile Ile Asp Glu  
 355 360 365  
 Phe Glu Gln Lys Leu Arg Ala Cys His Thr Arg Gly Leu Asp Gly Ile  
 370 375 380  
 Lys Glu Leu Glu Ile Gly Gln Ala Gly Ser Gln Arg Ala Pro Ser Ala  
 385 390 395 400  
 Lys Lys Pro Ser Thr Gly Ser Arg Tyr Gln Pro Leu Ala Ser Thr Ala  
 405 410 415  
 Ser Asp Asn Asp Phe Val Thr Pro Glu Pro Arg Arg Thr Thr Arg Arg  
 420 425 430  
 His Pro Asn Thr Gln Gln Arg Ala Ser Lys Lys Lys Pro Lys Val Val  
 435 440 445  
 Phe Ser Ser Asp Glu Ser Ser Glu Glu Asp Leu Ser Ala Glu Met Thr  
 450 455 460  
 Glu Asp Glu Thr Pro Lys Lys Thr Thr Pro Ile Leu Arg Ala Ser Ala  
 465 470 475 480  
 Arg Arg His Arg Ser  
 485

<210> 1733  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 1733  
 Met Val Val Thr Thr Glu Pro Leu Thr Gln Ala Val Val Asp Lys Thr  
 1 5 10 15  
 Leu Leu Leu Val Val Leu Leu Leu Gly Val Thr Leu Phe Ile Thr Val  
 20 25 30  
 Leu Val Leu Phe Ala Leu Gln Ala Tyr Glu Ser Tyr Lys Lys Lys Asp  
 35 40 45  
 Tyr Thr Gln Val Asp Tyr Leu Ile Asn Gly Met Tyr Ala Asp Ser Glu  
 50 55 60

Met

65

<210> 1734  
<211> 65  
<212> PRT  
<213> Homo sapiens

<400> 1734  
Met Val Val Thr Thr Glu Pro Leu Thr Gln Ala Val Val Asp Lys Thr  
1 5 10 15  
Leu Leu Leu Val Val Leu Leu Leu Gly Val Thr Leu Phe Ile Thr Val  
20 25 30  
Leu Val Leu Phe Ala Leu Gln Ala Tyr Glu Ser Tyr Lys Lys Lys Asp  
35 40 45  
Tyr Thr Gln Val Asp Tyr Leu Ile Asn Gly Met Tyr Ala Asp Ser Glu  
50 55 60  
Met  
65

<210> 1735  
<211> 342  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (150)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (271)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1735  
Met Trp Thr Ala Leu Val Leu Ile Trp Ile Phe Ser Leu Ser Leu Ser  
1 5 10 15  
Glu Ser His Ala Ala Ser Asn Asp Pro Arg Asn Phe Val Pro Asn Lys  
20 25 30  
Met Trp Lys Gly Leu Val Lys Arg Asn Ala Ser Val Glu Thr Val Asp  
35 40 45  
Asn Lys Thr Ser Glu Asp Val Thr Met Ala Ala Ala Ser Pro Val Thr  
50 55 60  
Leu Thr Lys Gly Thr Ser Ala Ala His Leu Asn Ser Met Glu Val Thr  
65 70 75 80

Thr	Glu	Asp	Thr	Ser	Arg	Thr	Asp	Val	Ser	Glu	Pro	Ala	Thr	Ser	Gly	
				85					90					95		
Gly	Ala	Ala	Asp	Gly	Val	Thr	Ser	Ile	Ala	Pro	Thr	Ala	Val	Ala	Ser	
			100					105					110			
Ser	Thr	Thr	Ala	Ala	Ser	Ile	Thr	Thr	Ala	Ala	Ser	Ser	Met	Thr	Val	
		115					120					125				
Ala	Ser	Ser	Ala	Pro	Thr	Thr	Ala	Ala	Ser	Ser	Thr	Thr	Val	Ala	Ser	
	130					135					140					
Ile	Ala	Pro	Thr	Thr	Xaa	Ala	Ser	Ser	Met	Thr	Ala	Ala	Ser	Ser	Thr	
145					150				155						160	
Pro	Met	Thr	Leu	Ala	Leu	Pro	Ala	Pro	Thr	Ser	Thr	Ser	Thr	Gly	Arg	
			165						170					175		
Thr	Pro	Ser	Thr	Thr	Ala	Thr	Gly	His	Pro	Ser	Leu	Ser	Thr	Ala	Leu	
			180					185					190			
Ala	Gln	Val	Pro	Lys	Ser	Ser	Ala	Leu	Pro	Arg	Thr	Ala	Thr	Leu	Ala	
	195						200					205				
Thr	Leu	Ala	Thr	Arg	Ala	Gln	Thr	Val	Ala	Thr	Thr	Ala	Asn	Thr	Ser	
	210					215					220					
Ser	Pro	Met	Ser	Thr	Arg	Pro	Ser	Pro	Ser	Lys	His	Met	Pro	Ser	Asp	
225					230					235					240	
Thr	Ala	Ala	Ser	Pro	Val	Pro	Pro	Met	Arg	Pro	Gln	Ala	Gln	Gly	Pro	
			245					250						255		
Ile	Ser	Gln	Val	Ser	Val	Asp	Gln	Pro	Val	Val	Asn	Thr	Thr	Xaa	Lys	
		260					265						270			
Ser	Thr	Pro	Met	Pro	Ser	Asn	Thr	Thr	Thr	Glu	Pro	Leu	Thr	Gln	Ala	
		275					280					285				
Val	Val	Asp	Lys	Thr	Leu	Leu	Leu	Val	Val	Leu	Leu	Leu	Gly	Val	Thr	
	290					295					300					
Leu	Phe	Ile	Thr	Val	Leu	Val	Leu	Phe	Ala	Leu	Gln	Ala	Tyr	Glu	Ser	
305					310					315					320	
Tyr	Lys	Lys	Lys	Asp	Tyr	Thr	Gln	Val	Asp	Tyr	Leu	Ile	Asn	Gly	Met	
				325					330					335		
Tyr	Ala	Asp	Ser	Glu	Met											
			340													

<210> 1736

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1736

Met Thr Leu Pro Thr Ser Gln Cys Leu Ile Cys Leu Leu Gln Ala Leu  
1 5 10 15

Cys Gly Ile Gly His Gly Ala Leu Ala Trp Gly Ser Asn Gln Val Leu  
20 25 30

Phe Pro Gly Gly Gln Gln Glu Asp Gly Gly Cys Gln Arg Ile Pro Asp  
35 40 45

Pro Ser Phe Leu Ser Thr Pro Cys Gly Lys Gln Gly Gly His Ala Glu  
50 55 60

Gln Glu Leu Gln Gln Cys Trp Gly Ala Phe Xaa Gln Leu Pro Gly Cys  
65 70 75 80

Val Leu His Phe His Pro Gly Val Leu His Lys Ala His Ser Glu Trp  
85 90 95

<210> 1737

<211> 79

<212> PRT

<213> Homo sapiens

<400> 1737

Gly Leu Gly Pro Gly Ile Pro Met Cys Phe Gln Gln Trp Thr Thr Cys  
1 5 10 15

Ser Glu Val Leu Val Cys Ala Ser Pro Val Ser Val Val Asp Lys Thr  
20 25 30

Asp Gly Arg Phe Arg Gly Ser Thr Pro His Thr Cys Lys Leu Asp Arg  
35 40 45

Ala Gln Lys Leu Val Lys Asp Ile Trp Arg Cys Cys Ala Gly Gln Phe  
50 55 60

Ala Pro Leu Ser Leu Arg Ser Met Val Phe His Asn Ala Pro Ile  
65 70 75

<210> 1738

<211> 96

<212> PRT

<213> Homo sapiens

<400> 1738

Met	Thr	Leu	Pro	Thr	Ser	Gln	Cys	Leu	Ile	Cys	Leu	Leu	Gln	Ala	Leu
1				5					10					15	
Cys	Gly	Ile	Gly	His	Gly	Ala	Leu	Ala	Trp	Gly	Ser	Asn	Gln	Val	Leu
		20						25					30		
Phe	Pro	Gly	Gly	Gln	Gln	Glu	Asp	Gly	Gly	Cys	Gln	Arg	Ile	Pro	Asp
		35					40					45			
Pro	Ser	Phe	Leu	Ser	Thr	Pro	Cys	Gly	Lys	Gln	Gly	Gly	His	Ala	Glu
	50					55					60				
Gln	Glu	Leu	Gln	Gln	Cys	Trp	Gly	Ala	Phe	Cys	Gln	Leu	Pro	Gly	Cys
65					70					75					80
Val	Leu	His	Phe	His	Pro	Gly	Val	Leu	His	Lys	Ala	His	Ser	Glu	Trp
				85					90					95	

<210> 1739

<211> 162

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (161)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1739

Met	Ala	Leu	Pro	Arg	Cys	Thr	Trp	Pro	Asn	Tyr	Val	Trp	Arg	Ala	Val
1				5					10					15	
Met	Ala	Cys	Leu	Val	His	Arg	Gly	Leu	Gly	Ala	Pro	Leu	Thr	Leu	Cys
			20					25					30		



Met	Leu	Gly	Cys	Leu	Leu	Gln	Ala	Gly	His	Val	Leu	Ser	Gln	Lys	Leu
		35					40					45			
Asp	Asp	Val	Asp	Pro	Leu	Val	Ala	Thr	Asn	Phe	Gly	Lys	Ile	Arg	Gly
	50					55					60				
Ile	Lys	Lys	Glu	Leu	Asn	Asn	Glu	Ile	Leu	Gly	Pro	Val	Ile	Gln	Phe
65					70					75					80
Leu	Gly	Val	Pro	Tyr	Ala	Ala	Pro	Pro	Thr	Gly	Glu	Arg	Arg	Phe	Gln
				85					90					95	
Pro	Pro	Glu	Pro	Pro	Ser	Pro	Trp	Ser	Asp	Ile	Arg	Asn	Ala	Thr	Gln
		100					105						110		
Phe	Ala	Pro	Val	Cys	Pro	Gln	Asn	Ile	Ile	Asp	Gly	Arg	Leu	Pro	Glu
	115						120					125			
Val	Met	Leu	Pro	Val	Xaa	Phe	Thr	Asn	Asn	Leu	Asp	Val	Xaa	Ser	Ser
	130					135					140				
Tyr	Val	Gln	Asp	Gln	Ser	Glu	Arg	Leu	Xaa	Ile	Phe	Lys	Tyr	Ile	Cys
145					150					155					160
Xaa Asp															

<210> 1740  
 <211> 228  
 <212> PRT  
 <213> Homo sapiens

<400> 1740															
Met	Ala	Leu	Pro	Arg	Cys	Thr	Trp	Pro	Asn	Tyr	Val	Trp	Arg	Ala	Val
1				5					10					15	
Met	Ala	Cys	Leu	Val	His	Arg	Gly	Leu	Gly	Ala	Pro	Leu	Thr	Leu	Cys
			20					25					30		
Met	Leu	Gly	Cys	Leu	Leu	Gln	Ala	Gly	His	Val	Leu	Ser	Gln	Lys	Leu
		35					40					45			
Asp	Asp	Val	Asp	Pro	Leu	Val	Ala	Thr	Asn	Phe	Gly	Lys	Ile	Arg	Gly
	50					55					60				
Ile	Lys	Lys	Glu	Leu	Asn	Asn	Glu	Ile	Leu	Gly	Pro	Val	Ile	Gln	Phe
65					70					75					80
Leu	Gly	Val	Pro	Tyr	Ala	Ala	Pro	Pro	Thr	Gly	Glu	Arg	Arg	Phe	Gln
				85					90					95	
Pro	Pro	Glu	Pro	Pro	Ser	Pro	Trp	Ser	Asp	Ile	Arg	Asn	Ala	Thr	Gln
		100					105						110		



Phe Ala Pro Val Cys Pro Gln Asn Ile Ile Asp Gly Arg Leu Pro Glu  
115 120 125

Val Met Leu Pro Val Trp Phe Thr Asn Asn Leu Asp Val Val Ser Ser  
130 135 140

Tyr Val Gln Asp Gln Ser Glu Asp Cys Leu Tyr Leu Asn Ile Tyr Val  
145 150 155 160

Pro Thr Glu Asp Asp Ile Arg Asp Ser Gly Gly Pro Lys Pro Val Met  
165 170 175

Val Tyr Ile His Gly Gly Ser Tyr Met Glu Gly Thr Gly Asn Leu Tyr  
180 185 190

Asp Gly Ser Val Leu Ala Ser Tyr Gly Asn Val Ile Val Ile Thr Val  
195 200 205

Asn Tyr Arg Leu Gly Val Leu Gly Lys Lys Ser Leu Ser Phe Val Phe  
210 215 220

Thr Met Asn Pro  
225

<210> 1741  
<211> 94  
<212> PRT  
<213> Homo sapiens

<400> 1741  
Met Leu Pro Thr Leu Thr Ala Pro Thr Leu Ala Leu Leu Leu Leu Pro  
1 5 10 15

Lys Ile Ser Cys Leu Leu Thr Ser Thr His Pro Arg Thr Gln Gly Ser  
20 25 30

Arg Ala His Phe Pro Arg Ala Trp Arg Leu Asp Pro Gly Glu Phe Leu  
35 40 45

His Pro Leu Gln Asp Pro His Ser Ser Pro Leu Trp Ser Leu Asp His  
50 55 60

Arg Trp Arg Trp Pro Glu Leu Thr Cys Trp Leu Trp Gly His Ser Ser  
65 70 75 80

Cys Trp Pro Arg Met Arg Arg Gly Thr Arg Glu Tyr Lys Gly  
85 90

<210> 1742  
<211> 94  
<212> PRT  
<213> Homo sapiens

<400> 1742

Met	Leu	Pro	Thr	Leu	Thr	Ala	Pro	Thr	Leu	Ala	Leu	Leu	Leu	Leu	Pro
1				5					10					15	
Lys	Ile	Ser	Cys	Leu	Leu	Thr	Ser	Thr	His	Pro	Arg	Thr	Gln	Gly	Ser
			20					25					30		
Arg	Ala	His	Phe	Pro	Arg	Ala	Trp	Arg	Leu	Asp	Pro	Gly	Glu	Phe	Leu
		35					40					45			
His	Pro	Leu	Gln	Asp	Pro	His	Ser	Ser	Pro	Leu	Trp	Ser	Leu	Asp	His
	50					55					60				
Arg	Trp	Arg	Trp	Pro	Glu	Leu	Thr	Cys	Trp	Leu	Trp	Gly	His	Ser	Ser
65					70					75					80
Cys	Trp	Pro	Arg	Met	Arg	Arg	Gly	Thr	Arg	Glu	Tyr	Lys	Gly		
				85					90						

<210> 1743

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1743

Met	Arg	Thr	Asp	Tyr	Pro	Arg	Xaa	Xaa	Arg	Ser	Cys	Leu	Cys	Val	Ser
1				5					10					15	
Leu	Ser	Pro	Pro	Leu	Val	Ser	Lys	Gly	Ser	His	Arg	Ser	Arg	Trp	Leu
			20					25					30		
Arg	Thr	Met	Ala	Val	Pro	Ala	Gly	Thr	Gln	Val	Trp	Arg	Gln	Asp	Leu
		35					40					45			
Gln	Pro	Leu	Gly	Ala	Val	Leu	Leu	Gln							
	50					55									

<210> 1744

<211> 123

<212> PRT

<213> Homo sapiens

<400> 1744

Met	Arg	Thr	Asp	Tyr	Pro	Arg	Ser	Val	Leu	Ala	Pro	Ala	Tyr	Val	Ser
1				5					10					15	
Val	Cys	Leu	Leu	Leu	Leu	Cys	Pro	Arg	Glu	Val	Ile	Ala	Pro	Ala	Gly
		20						25					30		
Ser	Glu	Pro	Trp	Leu	Cys	Gln	Pro	Ala	Pro	Arg	Cys	Gly	Asp	Lys	Ile
		35					40					45			
Tyr	Asn	Pro	Leu	Glu	Gln	Cys	Cys	Tyr	Asn	Asp	Ala	Ile	Val	Ser	Leu
	50					55					60				
Ser	Glu	Thr	Arg	Gln	Cys	Gly	Pro	Pro	Cys	Thr	Phe	Trp	Pro	Cys	Phe
	65				70					75					80
Glu	Leu	Cys	Cys	Leu	Asp	Ser	Phe	Gly	Leu	Thr	Asn	Asp	Phe	Val	Val
				85					90					95	
Lys	Leu	Lys	Val	Gln	Gly	Val	Asn	Ser	Gln	Cys	His	Ser	Ser	Pro	Ile
			100					105					110		
Ser	Ser	Lys	Cys	Glu	Ser	Arg	Arg	Arg	Phe	Pro					
		115					120								

<210> 1745  
 <211> 107  
 <212> PRT  
 <213> Homo sapiens

<400> 1745															
Met	His	Pro	Leu	Pro	Cys	Leu	His	Leu	Trp	Glu	Phe	Phe	Leu	Ser	Glu
1				5					10					15	
Trp	Gly	Gln	Phe	Leu	Ala	Gln	Gly	Ser	Glu	Leu	Arg	Gln	Pro	Gln	Gly
		20						25					30		
Arg	Gly	Pro	Tyr	Leu	Leu	Ser	Ser	Val	Leu	Gly	Tyr	Arg	Glu	Gln	Pro
		35					40					45			
Gly	Asp	Ser	Leu	Val	Pro	Pro	Pro	Trp	Arg	Val	Ser	Leu	Thr	His	Ser
	50					55					60				
Pro	Ser	Leu	Arg	Ala	Ser	Trp	Pro	Thr	Ala	Ser	Leu	Trp	Glu	Ser	Gly
	65				70				75						80
Arg	Arg	Ala	Arg	Trp	Val	Ala	Gly	Ala	Arg	Leu	Leu	Ser	Pro	Pro	Pro
				85				90						95	
Ala	Asp	Phe	Leu	Leu	Leu	Pro	Leu	Ile	Pro	Phe					
			100					105							

<210> 1746  
 <211> 107

<212> PRT

<400> 1746

Trp Gly Gln Phe Leu Ala Gln Gly Ser Glu Leu Arg Gln Pro Gln Gly  
20 25 30

Arg Gly Pro Tyr Leu Leu Ser Ser Val Leu Gly Tyr Arg Glu Gln Pro  
35 40 45

Gly Asp Ser Leu Val Pro Pro Pro Trp Arg Val Ser Leu Thr His Ser  
50 55 60

Pro Ser Leu Arg Ala Ser Trp Pro Thr Ala Ser Leu Trp Glu Ser Gly  
65 70 75 80

Arg Arg Ala Arg Trp Val Ala Gly Ala Arg Leu Leu Ser Pro Pro Pro  
85 90 95

Ala Asp Phe Leu Leu Leu Pro Leu Ile Pro Phe  
100 105

<210> 1747

<212> PRT

<400> 1747

Phe Ser Ala Leu Ser Leu Thr Leu Ser Phe Gln Glu Gly Glu Asn Glu  
20 25 30

Cys Phe Pro Ala Phe Ser Val Leu Cys Ser Lys Glu Glu Ser Arg Cys  
35 40 45

Trp Leu Pro Asn Leu Pro Tyr Phe Leu Ile Ala Val Arg Gly Ile Asn  
50 55 60

Cys Met Phe Pro Glu Gly Lys Gly Trp Leu Thr Asp Leu Leu Glu Gly  
65 70 75 80

Ile Leu Ser Val Glu Ala Gly Gln Glu Asn Pro Gly Ile Ser Phe Ala  
85 90 95

Gly Phe Cys Ala Val Pro Leu Pro Ser Ser Cys Leu Lys Cys Glu Tyr  
100 105 110

Cys Phe Pro Ala Phe Gln Arg Trp  
115 120

<210> 1748  
<211> 62  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1748  
Asp Val Leu Gln Ile Thr Phe Trp Trp Pro Leu Val Thr Ala Val Ser  
1 5 10 15  
Leu Gln Gly Leu Asn Lys Xaa Leu Ser Pro Ile Pro Phe His Thr Cys  
20 25 30  
Val Val Tyr Tyr Trp Gln Ala Ser Val Leu Arg Val Ser Asn Gly Thr  
35 40 45  
Asp Gly Cys Gln Thr Leu Trp Ile Ser Ala Ser Pro Gly Trp  
50 55 60

<210> 1749  
<211> 120  
<212> PRT  
<213> Homo sapiens

<400> 1749  
Met Ala Gly Tyr Gln Lys His His Gly Ser Phe Ala Ile Cys Cys Leu  
1 5 10 15  
Phe Ser Ala Leu Ser Leu Thr Leu Ser Phe Gln Glu Gly Glu Asn Glu  
20 25 30  
Cys Phe Pro Ala Phe Ser Val Leu Cys Ser Lys Glu Glu Ser Arg Cys  
35 40 45  
Trp Leu Pro Asn Leu Pro Tyr Phe Leu Ile Ala Val Arg Gly Ile Asn  
50 55 60  
Cys Met Phe Pro Glu Gly Lys Gly Trp Leu Thr Asp Leu Leu Glu Gly  
65 70 75 80  
Ile Leu Ser Val Glu Ala Gly Gln Glu Asn Pro Gly Ile Ser Phe Ala  
85 90 95  
Gly Phe Cys Ala Val Pro Leu Pro Ser Ser Cys Leu Lys Cys Glu Tyr  
100 105 110  
Cys Phe Pro Ala Phe Gln Arg Trp  
115 120

<210> 1750  
<211> 105  
<212> PRT  
<213> Homo sapiens

<400> 1750  
Met Asp Asp Phe Leu Phe Ser Val Ser Ile Leu Ser Gly Ile Leu Cys  
1 5 10 15  
Ser Ile Leu Ala Val Leu Lys Phe Met Leu Gly Lys Val Leu Thr Ser  
20 25 30  
Arg Ala Leu Ile Thr Asp Gly Phe Asn Ser Leu Val Gly Gly Val Met  
35 40 45  
Gly Phe Ser Ile Leu Leu Ser Ala Glu Val Phe Lys His Asp Ser Ala  
50 55 60  
Val Trp Tyr Leu Asp Gly Ser Ile Gly Val Leu Ile Gly Leu Thr Ile  
65 70 75 80  
Phe Ala Tyr Gly Val Lys Leu Leu Ile Asp Met Val Pro Arg Val Arg  
85 90 95  
Gln Thr Arg His Tyr Glu Met Phe Glu  
100 105

<210> 1751  
<211> 186  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (138)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (166)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1751  
Met Leu Asp Lys Ile Ile Ser Ile Phe Ile Ile Phe Leu Leu Val Ile  
1 5 10 15  
Gly Thr Leu Leu Leu Ala Leu Leu Leu Thr Ala Lys Val His Gln Glu  
20 25 30  
Ser Val His Met Ile Glu Val Thr Ser Asn Leu Ile Asn Glu Thr Leu  
35 40 45  
Ala Asn His Pro Glu Trp Ala Asn Trp Leu Pro Glu Ala Gln Val Val

50		55		60
Gln Arg Ala Leu Asn Ser Ala Ala Asn Asn Val Tyr Gln Tyr Gly Arg				
65		70		75 80
Glu Trp Ile Thr His Lys Leu His Lys Ile Leu Gly Asp Lys Val Asn				
		85		90 95
Asn Thr Ala Val Ile Glu Lys Gln Val Leu Glu Leu Trp Asp Arg Leu				
		100		105 110
Tyr His Ser Trp Phe Val Lys Asn Val Thr His Ser Gly Arg His Lys				
		115		120 125
Gly Gln Lys Leu His Val Ser Arg Gln Xaa Ser Trp Leu Gly Asp Ile				
		130		135 140
Leu Asp Trp Gln Asp Ile Val Ser Phe Val His Glu Asn Ile Glu Thr				
145		150		155 160
Phe Leu Ser Ile Leu Xaa Ser Leu Trp Ile Val Met Ser Leu Asn Val				
		165		170 175
Ser Leu Leu Leu Pro Leu Ala Leu His Ser				
		180		185

<210> 1752  
 <211> 224  
 <212> PRT  
 <213> Homo sapiens

<400> 1752
Val Leu Ser Leu Ile Ile Phe Leu Thr Thr Leu Phe Tyr Leu Leu Ser
1 5 10 15
Ser Ser Asp Glu Tyr Tyr Lys Pro Val Lys Trp Val Ile Ser Leu Thr
20 25 30
Pro Leu Ser Gln Pro Gly Pro Ser Ser Asn Ile Ile Gly Gln Ser Val
35 40 45
Glu Glu Ala Ile Arg Gly Val Phe Asp Ala Ser Leu Lys Met Ala Gly
50 55 60
Phe Tyr Gly Leu Tyr Thr Trp Leu Thr His Thr Met Phe Gly Ile Asn
65 70 75 80
Ile Val Phe Ile Pro Ser Ala Leu Ala Ala Ile Leu Gly Ala Val Pro
85 90 95
Phe Leu Gly Thr Tyr Trp Ala Ala Val Pro Ala Val Leu Asp Leu Trp
100 105 110
Leu Thr Gln Gly Leu Gly Cys Lys Ala Ile Leu Leu Leu Ile Phe His
115 120 125



Leu Leu Pro Thr Tyr Phe Val Asp Thr Ala Ile Tyr Ser Asp Ile Ser  
 130 135 140  
 Gly Gly Gly His Pro Tyr Leu Thr Gly Leu Ala Val Ala Gly Gly Ala  
 145 150 155 160  
 Tyr Tyr Leu Gly Leu Glu Gly Ala Ile Ile Gly Pro Ile Leu Leu Cys  
 165 170 175  
 Ile Leu Val Val Ala Ser Asn Ile Tyr Ser Ala Met Leu Val Ser Pro  
 180 185 190  
 Thr Asn Ser Val Pro Thr Pro Asn Gln Thr Pro Trp Pro Ala Gln Pro  
 195 200 205  
 Gln Arg Thr Phe Arg Asp Ile Ser Glu Asp Leu Lys Ser Ser Val Gly  
 210 215 220

<210> 1753  
 <211> 424  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (138)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (183)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1753  
 Met Leu Asp Lys Ile Ile Ser Ile Phe Ile Ile Phe Leu Leu Val Ile  
 1 5 10 15  
 Gly Thr Leu Leu Leu Ala Leu Leu Leu Thr Ala Lys Val His Gln Glu  
 20 25 30  
 Ser Val His Met Ile Glu Val Thr Ser Asn Leu Ile Asn Glu Thr Leu  
 35 40 45  
 Ala Asn His Pro Glu Trp Ala Asn Trp Leu Pro Glu Ala Gln Val Val  
 50 55 60  
 Gln Arg Ala Leu Asn Ser Ala Ala Asn Asn Val Tyr Gln Tyr Gly Arg  
 65 70 75 80  
 Glu Trp Ile Thr His Lys Leu His Lys Ile Leu Gly Asp Lys Val Asn  
 85 90 95

Asn	Thr	Ala	Val	Ile	Glu	Lys	Gln	Val	Leu	Glu	Leu	Trp	Asp	Arg	Leu		
			100					105					110				
Tyr	His	Ser	Trp	Phe	Val	Lys	Asn	Val	Thr	His	Ser	Gly	Arg	His	Lys		
		115					120					125					
Gly	Gln	Lys	Leu	His	Val	Ser	Arg	Gln	Xaa	Ser	Trp	Leu	Gly	Asp	Ile		
	130					135					140						
Leu	Asp	Trp	Gln	Asp	Ile	Val	Ser	Phe	Val	His	Glu	Asn	Ile	Glu	Thr		
145					150					155					160		
Phe	Leu	Ser	Ile	Leu	Glu	Ser	Leu	Trp	Ile	Val	Met	Ser	Arg	Asn	Val		
				165					170					175			
Ser	Leu	Leu	Phe	Thr	Thr	Xaa	Thr	Thr	Leu	Leu	Thr	Ile	Leu	Phe	Tyr		
			180					185					190				
Ser	Gly	Thr	Ala	Leu	Leu	Asn	Phe	Val	Leu	Ser	Leu	Ile	Ile	Phe	Leu		
		195					200					205					
Thr	Thr	Leu	Phe	Tyr	Leu	Leu	Ser	Ser	Ser	Asp	Glu	Tyr	Tyr	Lys	Pro		
	210					215					220						
Val	Lys	Trp	Val	Ile	Ser	Leu	Thr	Pro	Leu	Ser	Gln	Pro	Gly	Pro	Ser		
225					230					235					240		
Ser	Asn	Ile	Ile	Gly	Gln	Ser	Val	Glu	Glu	Ala	Ile	Arg	Gly	Val	Phe		
				245					250					255			
Asp	Ala	Ser	Leu	Lys	Met	Ala	Gly	Phe	Tyr	Gly	Leu	Tyr	Thr	Trp	Leu		
			260					265					270				
Thr	His	Thr	Met	Phe	Gly	Ile	Asn	Ile	Val	Phe	Ile	Pro	Ser	Ala	Leu		
		275					280					285					
Ala	Ala	Ile	Leu	Gly	Ala	Val	Pro	Phe	Leu	Gly	Thr	Tyr	Trp	Ala	Ala		
	290					295					300						
Val	Pro	Ala	Val	Leu	Asp	Leu	Trp	Leu	Thr	Gln	Gly	Leu	Gly	Cys	Lys		
305					310					315					320		
Ala	Ile	Leu	Leu	Leu	Ile	Phe	His	Leu	Leu	Pro	Thr	Tyr	Phe	Val	Asp		
				325					330					335			
Thr	Ala	Ile	Tyr	Ser	Asp	Ile	Ser	Gly	Gly	Gly	His	Pro	Tyr	Leu	Thr		
		340						345				350					
Gly	Leu	Ala	Val	Ala	Gly	Gly	Ala	Tyr	Tyr	Leu	Gly	Leu	Glu	Gly	Ala		
	355						360					365					
Ile	Ile	Gly	Pro	Ile	Leu	Leu	Cys	Ile	Leu	Val	Val	Ala	Ser	Asn	Ile		
	370					375					380						
Tyr	Ser	Ala	Met	Leu	Val	Ser	Pro	Thr	Asn	Ser	Val	Pro	Thr	Pro	Asn		
385					390					395					400		

Gln Thr Pro Trp Pro Ala Gln Pro Gln Arg Thr Phe Arg Asp Ile Ser  
405 410 415

Glu Asp Leu Lys Ser Ser Val Gly  
420

<210> 1754  
<211> 385  
<212> PRT  
<213> Homo sapiens

<400> 1754

Met Leu Asp Lys Ile Ile Ser Ile Phe Ile Ile Phe Leu Leu Val Ile  
1 5 10 15

Gly Thr Leu Leu Leu Ala Leu Leu Leu Thr Ala Lys Val His Gln Glu  
20 25 30

Ser Val His Met Ile Glu Val Thr Ser Asn Leu Ile Asn Glu Thr Leu  
35 40 45

Ala Asn His Pro Glu Trp Ala Asn Trp Leu Pro Glu Ala Gln Val Val  
50 55 60

Gln Arg Ala Leu Asn Ser Ala Ala Asn Asn Val Tyr Gln Tyr Gly Arg  
65 70 75 80

Glu Trp Ile Thr His Lys Leu His Lys Ile Leu Gly Asp Lys Val Asn  
85 90 95

Asn Thr Ala Val Ile Glu Lys Gln Val Leu Glu Leu Trp Asp Arg Leu  
100 105 110

Tyr His Ser Trp Phe Val Lys Asn Val Thr His Ser Gly Arg His Lys  
115 120 125

Gly Gln Lys Leu His Val Ser Arg Gln Asn Ser Trp Leu Gly Asp Ile  
130 135 140

Leu Asp Trp Gln Asp Ile Val Ser Phe Val His Glu Asn Ile Glu Thr  
145 150 155 160

Phe Leu Ser Ile Leu Glu Ser Leu Trp Ile Val Met Ser Arg Asn Val  
165 170 175

Ser Leu Leu Phe Thr Thr Val Thr Thr Leu Leu Thr Ile Leu Phe Tyr  
180 185 190

Ser Gly Thr Ala Leu Leu Asn Phe Val Leu Ser Leu Ile Ile Phe Leu  
195 200 205

Thr Thr Leu Phe Tyr Leu Leu Ser Ser Ser Asp Glu Tyr Tyr Lys Pro  
210 215 220

Val	Lys	Trp	Val	Ile	Ser	Leu	Thr	Pro	Leu	Ser	Gln	Pro	Gly	Pro	Ser
225					230					235					240
Ser	Asn	Ile	Ile	Gly	Gln	Ser	Val	Glu	Glu	Ala	Ile	Arg	Gly	Val	Phe
				245					250					255	
Asp	Ala	Ser	Leu	Lys	Met	Ala	Gly	Phe	Tyr	Gly	Leu	Tyr	Thr	Trp	Leu
			260					265					270		
Thr	His	Thr	Met	Phe	Gly	Ile	Asn	Ile	Val	Phe	Ile	Pro	Ser	Ala	Leu
		275					280					285			
Ala	Ala	Ile	Leu	Gly	Ala	Val	Pro	Phe	Leu	Gly	Thr	Tyr	Trp	Ala	Ala
	290					295					300				
Val	Pro	Ala	Val	Leu	Asp	Leu	Trp	Leu	Thr	Gln	Gly	Leu	Gly	Cys	Lys
305					310					315					320
Ala	Ile	Leu	Leu	Met	Ile	Phe	His	Leu	Leu	Pro	Thr	Tyr	Phe	Val	Asp
				325					330					335	
Thr	Ala	Ile	Tyr	Ser	Asp	Ile	Ser	Gly	Gly	Gly	His	Pro	Tyr	Leu	Thr
			340					345					350		
Gly	Leu	Ala	Val	Ala	Gly	Gly	Ser	Ile	Leu	Pro	Arg	Pro	Gly	Arg	Ser
		355					360					365			
Asn	His	Arg	Ser	Tyr	Ser	Ser	Leu	His	Thr	Cys	Gly	Cys	Phe	Gln	Tyr
	370					375					380				
Leu															
385															

<210> 1755  
 <211> 293  
 <212> PRT  
 <213> Homo sapiens

<400> 1755															
Met	Pro	Tyr	Val	Thr	Glu	Ala	Thr	Arg	Val	Gln	Leu	Val	Leu	Pro	Leu
1				5					10					15	
Leu	Val	Ala	Glu	Ala	Ala	Ala	Ala	Pro	Ala	Phe	Leu	Glu	Ala	Phe	Ala
			20					25					30		
Ala	Asn	Val	Leu	Glu	Pro	Arg	Glu	His	Ala	Leu	Leu	Thr	Leu	Leu	Leu
		35					40					45			
Val	Tyr	Gly	Pro	Arg	Glu	Gly	Gly	Arg	Gly	Ala	Pro	Asp	Pro	Phe	Leu
	50					55					60				
Gly	Val	Lys	Ala	Ala	Ala	Ala	Glu	Leu	Glu	Arg	Arg	Tyr	Pro	Gly	Thr
	65					70				75					80
Arg	Leu	Ala	Trp	Leu	Ala	Val	Arg	Ala	Glu	Ala	Pro	Ser	Gln	Val	Arg

85					90					95					
Leu	Met	Asp	Val	Val	Ser	Lys	Lys	His	Pro	Val	Asp	Thr	Leu	Phe	Phe
			100					105					110		
Leu	Thr	Thr	Val	Trp	Thr	Arg	Pro	Gly	Pro	Glu	Val	Leu	Asn	Arg	Cys
			115				120						125		
Arg	Met	Asn	Ala	Ile	Ser	Gly	Trp	Gln	Ala	Phe	Phe	Pro	Val	His	Phe
						135					140				
Gln	Glu	Phe	Asn	Pro	Ala	Leu	Ser	Pro	Gln	Arg	Ser	Pro	Pro	Gly	Pro
145						150					155				160
Pro	Gly	Ala	Gly	Pro	Asp	Pro	Pro	Ser	Pro	Pro	Gly	Ala	Asp	Pro	Ser
				165					170					175	
Arg	Gly	Ala	Pro	Ile	Gly	Gly	Arg	Phe	Asp	Arg	Gln	Ala	Ser	Ala	Glu
			180					185					190		
Gly	Cys	Phe	Tyr	Asn	Ala	Asp	Tyr	Leu	Ala	Ala	Arg	Ala	Arg	Leu	Ala
			195				200					205			
Gly	Glu	Leu	Ala	Gly	Gln	Glu	Glu	Glu	Glu	Ala	Leu	Glu	Gly	Leu	Glu
			210			215					220				
Val	Met	Asp	Val	Phe	Leu	Arg	Phe	Ser	Gly	Leu	His	Leu	Phe	Arg	Ala
225						230					235				240
Val	Glu	Pro	Gly	Leu	Val	Gln	Lys	Phe	Ser	Leu	Arg	Asp	Cys	Ser	Pro
				245					250					255	
Arg	Leu	Ser	Glu	Glu	Leu	Tyr	His	Arg	Cys	Arg	Leu	Ser	Asn	Leu	Glu
			260					265					270		
Gly	Leu	Gly	Gly	Arg	Ala	Gln	Leu	Ala	Met	Ala	Leu	Phe	Glu	Gln	Glu
			275				280					285			
Gln	Ala	Asn	Ser	Thr											
			290												

<210> 1756  
 <211> 566  
 <212> PRT  
 <213> Homo sapiens

<400> 1756  
 Met Gln Val Val Ser His Gly Asp Glu Arg Pro Ala Trp Leu Met Ser  
 1 5 10 15  
 Glu Thr Leu Arg His Leu His Thr His Phe Gly Ala Asp Tyr Asp Trp  
 20 25 30  
 Phe Phe Ile Met Gln Asp Asp Thr Tyr Val Gln Ala Pro Arg Leu Ala  
 35 40 45

Ala	Leu	Ala	Gly	His	Leu	Ser	Ile	Asn	Gln	Asp	Leu	Tyr	Leu	Gly	Arg	50	55	60	
Ala	Glu	Glu	Phe	Ile	Gly	Ala	Gly	Glu	Gln	Ala	Arg	Tyr	Cys	His	Gly	65	70	75	80
Gly	Phe	Gly	Tyr	Leu	Leu	Ser	Arg	Ser	Leu	Leu	Leu	Arg	Leu	Arg	Pro	85	90	95	
His	Leu	Asp	Gly	Cys	Arg	Gly	Asp	Ile	Leu	Ser	Ala	Arg	Pro	Asp	Glu	100	105	110	
Trp	Leu	Gly	Arg	Cys	Leu	Ile	Asp	Ser	Leu	Gly	Val	Gly	Cys	Val	Ser	115	120	125	
Gln	His	Gln	Ala	Gln	Ile	Arg	Asn	Leu	Thr	Val	Leu	Thr	Pro	Glu	Gly	130	135	140	
Glu	Ala	Gly	Leu	Ser	Trp	Pro	Val	Gly	Leu	Pro	Ala	Pro	Phe	Thr	Pro	145	150	155	160
His	Ser	Arg	Phe	Glu	Val	Leu	Gly	Trp	Asp	Tyr	Phe	Thr	Glu	Gln	His	165	170	175	
Thr	Phe	Ser	Cys	Ala	Asp	Gly	Ala	Pro	Lys	Cys	Pro	Leu	Gln	Gly	Ala	180	185	190	
Ser	Arg	Ala	Asp	Val	Gly	Asp	Ala	Leu	Glu	Thr	Ala	Leu	Glu	Gln	Leu	195	200	205	
Asn	Arg	Arg	Tyr	Gln	Pro	Arg	Leu	Arg	Phe	Gln	Lys	Gln	Arg	Leu	Leu	210	215	220	
Asn	Gly	Tyr	Arg	Arg	Phe	Asp	Pro	Ala	Arg	Gly	Met	Glu	Tyr	Thr	Leu	225	230	235	240
Asp	Pro	Gly	Ser	Thr	His	Ala	Ser	Glu	Arg	Gly	His	Arg	Arg	Ala	Leu	245	250	255	
Ala	Arg	Arg	Val	Ser	Leu	Leu	Arg	Pro	Leu	Ser	Arg	Val	Glu	Ile	Leu	260	265	270	
Pro	Met	Pro	Tyr	Val	Thr	Glu	Ala	Thr	Arg	Val	Gln	Leu	Val	Leu	Pro	275	280	285	
Leu	Leu	Val	Ala	Glu	Ala	Ala	Ala	Ala	Pro	Ala	Phe	Leu	Glu	Ala	Phe	290	295	300	
Ala	Ala	Asn	Val	Leu	Glu	Pro	Arg	Glu	His	Ala	Leu	Leu	Thr	Leu	Leu	305	310	315	320
Leu	Val	Tyr	Gly	Pro	Arg	Glu	Gly	Gly	Arg	Gly	Ala	Pro	Asp	Pro	Phe	325	330	335	
Leu	Gly	Val	Lys	Ala	Ala	Ala	Ala	Glu	Leu	Glu	Arg	Arg	Tyr	Pro	Gly	340	345	350	





<222> (241)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (246)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1757

Met Glu Phe Ser Trp Leu Glu Thr Arg Trp Ala Arg Pro Phe Tyr Leu  
1 5 10 15

Ala Phe Val Phe Cys Leu Ala Leu Gly Leu Leu Gln Ala Ile Lys Leu  
20 25 30

Tyr Leu Arg Arg Gln Arg Leu Leu Arg Asp Leu Arg Pro Phe Pro Ala  
35 40 45

Pro Pro Thr His Trp Phe Leu Gly His Gln Lys Phe Ile Gln Asp Asp  
50 55 60

Asn Met Glu Lys Leu Glu Glu Ile Ile Glu Lys Tyr Pro Arg Ala Phe  
65 70 75 80

Pro Phe Trp Ile Gly Pro Phe Gln Ala Phe Phe Cys Ile Tyr Asp Pro  
85 90 95

Asp Tyr Ala Lys Thr Leu Leu Ser Arg Thr Asp Pro Lys Ser Gln Tyr  
100 105 110

Leu Gln Lys Phe Ser Pro Pro Leu Leu Gly Lys Gly Leu Ala Ala Leu  
115 120 125

Asp Gly Pro Lys Trp Phe Gln His Arg Arg Leu Leu Thr Pro Gly Phe  
130 135 140

His Phe Asn Ile Leu Lys Ala Tyr Ile Glu Val Met Ala His Ser Val  
145 150 155 160

Lys Met Met Leu Asp Lys Trp Glu Lys Ile Cys Ser Thr Gln Asp Thr  
165 170 175

Ser Val Glu Val Tyr Glu His Ile Asn Ser Met Ser Leu Asp Ile Ile  
180 185 190

Met Lys Cys Ala Phe Ser Lys Glu Thr Asn Cys Gln Thr Asn Ser Thr  
195 200 205

His Asp Pro Tyr Ala Lys Ala Ile Leu Asn Ser Ala Xaa Ser Tyr Phe  
210 215 220

Thr Val Val Gln Leu Leu Tyr His Ser Asp Ile Phe Phe Lys Phe Ser  
225 230 235 240

Xaa Gln Gly Tyr Arg Xaa Pro Glu Leu  
245



<210> 1758  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (74)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (88)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (89)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (91)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1758  
 Ala Gln Gly His Pro Trp Ser Val Arg Thr Gln Leu Pro Arg Ile Pro  
 1 5 10 15  
 Arg Pro Ser Pro Met Thr Leu Gly Pro Gln Ile Leu Ile Cys His Ser  
 20 25 30  
 Gly Ser Ala Ala Gly Ser Arg Asn Cys Ile Gly Gln Glu Phe Ala Met  
 35 40 45  
 Ile Glu Leu Lys Val Thr Ile Ala Leu Ile Leu Leu His Phe Arg Val  
 50 55 60  
 Thr Pro Asp Pro Thr Arg Pro Leu Thr Xaa Pro Asn His Phe Ile Leu  
 65 70 75 80  
 Lys Pro Lys Asn Gly Met Tyr Xaa Xaa Leu Xaa Lys Leu Ser Glu Cys  
 85 90 95

<210> 1759  
 <211> 249  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE  
 <222> (242)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (247)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (248)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1759  
 Met Glu Phe Ser Trp Leu Glu Thr Arg Trp Ala Arg Pro Phe Tyr Leu  
   1                  5                  10                  15  
 Ala Phe Val Phe Cys Leu Ala Leu Gly Leu Leu Gln Ala Ile Lys Leu  
                   20                  25                  30  
 Tyr Leu Arg Arg Gln Arg Leu Leu Arg Asp Leu Arg Pro Phe Pro Ala  
                   35                  40                  45  
 Pro Pro Thr His Trp Phe Leu Gly His Gln Lys Phe Ile Gln Asp Asp  
                   50                  55                  60  
 Asn Met Glu Lys Leu Glu Glu Ile Ile Glu Lys Tyr Pro Arg Ala Phe  
   65                  70                  75                  80  
 Pro Phe Trp Ile Gly Pro Phe Gln Ala Phe Phe Cys Ile Tyr Asp Pro  
                   85                  90                  95  
 Asp Tyr Ala Lys Thr Leu Leu Ser Arg Thr Asp Pro Lys Ser Gln Tyr  
                   100                  105                  110  
 Leu Gln Lys Phe Ser Pro Pro Leu Leu Gly Lys Gly Leu Ala Ala Leu  
                   115                  120                  125  
 Asp Gly Pro Lys Trp Phe Gln His Arg Arg Leu Leu Thr Pro Gly Phe  
                   130                  135                  140  
 His Phe Asn Ile Leu Lys Ala Tyr Ile Glu Val Met Ala His Ser Val  
   145                  150                  155                  160  
 Lys Met Met Leu Asp Lys Trp Glu Lys Ile Cys Ser Thr Gln Asp Thr  
                   165                  170                  175  
 Ser Val Glu Val Tyr Glu His Ile Asn Ser Met Ser Leu Asp Ile Ile  
                   180                  185                  190  
 Met Lys Cys Ala Phe Ser Lys Glu Thr Asn Cys Gln Thr Asn Ser Thr  
                   195                  200                  205  
 His Asp Pro Tyr Ala Lys Ala Ile Phe Glu Leu Ser Lys Ile Ile Phe  
   210                  215                  220

His Arg Leu Tyr Ser Cys Cys Ile Thr Val Thr Tyr Phe Ser Asn Ser  
225 230 235 240

Ala Xaa Arg Val Thr Val Xaa Xaa Ser  
245

<210> 1760  
<211> 509  
<212> PRT  
<213> Homo sapiens

<400> 1760

Met Glu Phe Ser Trp Leu Glu Thr Arg Trp Ala Arg Pro Phe Tyr Leu  
1 5 10 15

Ala Phe Val Phe Cys Leu Ala Leu Gly Leu Leu Gln Ala Ile Lys Leu  
20 25 30

Tyr Leu Arg Arg Gln Arg Leu Leu Arg Asp Leu Arg Pro Phe Pro Ala  
35 40 45

Pro Pro Thr His Trp Phe Leu Gly His Gln Lys Phe Ile Gln Asp Asp  
50 55 60

Asn Met Glu Lys Leu Glu Glu Ile Ile Glu Lys Tyr Pro Arg Ala Phe  
65 70 75 80

Pro Phe Trp Ile Gly Pro Phe Gln Ala Phe Phe Cys Ile Tyr Asp Pro  
85 90 95

Asp Tyr Ala Lys Thr Leu Leu Ser Arg Thr Asp Pro Lys Ser Gln Tyr  
100 105 110

Leu Gln Lys Phe Ser Pro Pro Leu Leu Gly Lys Gly Leu Ala Ala Leu  
115 120 125

Asp Gly Pro Lys Trp Phe Gln His Arg Arg Leu Leu Thr Pro Gly Phe  
130 135 140

His Phe Asn Ile Leu Lys Ala Tyr Ile Glu Val Met Ala His Ser Val  
145 150 155 160

Lys Met Met Leu Asp Lys Trp Glu Lys Ile Cys Ser Thr Gln Asp Thr  
165 170 175

Ser Val Glu Val Tyr Glu His Ile Asn Ser Met Ser Leu Asp Ile Ile  
180 185 190

Met Lys Cys Ala Phe Ser Lys Glu Thr Asn Cys Gln Thr Asn Ser Thr  
195 200 205

His Asp Pro Tyr Ala Lys Ala Ile Phe Glu Leu Ser Lys Ile Ile Phe  
210 215 220

His Arg Leu Tyr Ser Leu Leu Tyr His Ser Asp Ile Ile Phe Lys Leu

225		230		235		240									
Ser	Pro	Gln	Gly	Tyr	Arg	Phe	Gln	Lys	Leu	Ser	Arg	Val	Leu	Asn	Gln
				245					250					255	
Tyr	Thr	Asp	Thr	Ile	Ile	Gln	Glu	Arg	Lys	Lys	Ser	Leu	Gln	Ala	Gly
			260					265					270		
Val	Lys	Gln	Asp	Asn	Thr	Pro	Lys	Arg	Lys	Tyr	Gln	Asp	Phe	Leu	Asp
		275					280					285			
Ile	Val	Leu	Ser	Ala	Lys	Asp	Glu	Ser	Gly	Ser	Ser	Phe	Ser	Asp	Ile
	290					295					300				
Asp	Val	His	Ser	Glu	Val	Ser	Thr	Phe	Leu	Leu	Ala	Gly	His	Asp	Thr
305					310					315					320
Leu	Ala	Ala	Ser	Ile	Ser	Trp	Ile	Leu	Tyr	Cys	Leu	Ala	Leu	Asn	Pro
				325					330					335	
Glu	His	Gln	Glu	Arg	Cys	Arg	Glu	Glu	Val	Arg	Gly	Ile	Leu	Gly	Asp
			340					345					350		
Gly	Ser	Ser	Ile	Thr	Trp	Asp	Gln	Leu	Gly	Glu	Met	Ser	Tyr	Thr	Thr
		355					360					365			
Met	Cys	Ile	Lys	Glu	Thr	Cys	Arg	Leu	Ile	Pro	Ala	Val	Pro	Ser	Ile
	370					375					380				
Ser	Arg	Asp	Leu	Ser	Lys	Pro	Leu	Thr	Phe	Pro	Asp	Gly	Cys	Thr	Leu
385					390					395					400
Pro	Ala	Gly	Ile	Thr	Val	Val	Leu	Ser	Ile	Trp	Gly	Leu	His	His	Asn
				405					410					415	
Pro	Ala	Val	Trp	Lys	Asn	Pro	Lys	Val	Phe	Asp	Pro	Leu	Arg	Phe	Ser
		420						425					430		
Gln	Glu	Asn	Ser	Asp	Gln	Arg	His	Pro	Tyr	Ala	Tyr	Leu	Pro	Phe	Ser
		435					440					445			
Ala	Gly	Ser	Arg	Asn	Cys	Ile	Gly	Gln	Glu	Phe	Ala	Met	Ile	Glu	Leu
	450					455					460				
Lys	Val	Thr	Ile	Ala	Leu	Ile	Leu	Leu	His	Phe	Arg	Val	Thr	Pro	Asp
465					470					475					480
Pro	Thr	Arg	Pro	Leu	Thr	Phe	Pro	Asn	His	Phe	Ile	Leu	Lys	Pro	Lys
				485					490					495	
Asn	Gly	Met	Tyr	Leu	His	Leu	Lys	Lys	Leu	Ser	Glu	Cys			
		500						505							

<210> 1761

<211> 143

<212> PRT

<213> Homo sapiens

<400> 1761

Met	Phe	Lys	Trp	Val	Arg	Arg	Thr	Leu	Ile	Ala	Leu	Val	Gln	Val	Thr
1				5				10					15		
Phe	Gly	Arg	Thr	Ile	Asn	Lys	Gln	Ile	Arg	Asp	Thr	Val	Ser	Trp	Ile
			20					25					30		
Phe	Ser	Glu	Gln	Met	Leu	Val	Tyr	Tyr	Ile	Asn	Ile	Phe	Arg	Asp	Ala
		35					40					45			
Phe	Trp	Pro	Asn	Gly	Lys	Leu	Ala	Pro	Pro	Thr	Thr	Ile	Arg	Ser	Lys
	50					55					60				
Glu	Gln	Ser	Gln	Glu	Thr	Lys	Gln	Arg	Ala	Gln	Gln	Lys	Leu	Leu	Glu
65					70					75					80
Asn	Ile	Pro	Asp	Met	Leu	Gln	Ser	Leu	Val	Gly	Gln	Gln	Asn	Ala	Arg
				85					90					95	
His	Gly	Ile	Ile	Lys	Ile	Phe	Asn	Ala	Leu	Gln	Glu	Thr	Arg	Ala	Asn
			100					105					110		
Lys	His	Leu	Leu	Tyr	Ala	Leu	Met	Glu	Leu	Leu	Leu	Ile	Glu	Leu	Cys
		115					120					125			
Pro	Glu	Leu	Arg	Val	His	Leu	Asp	Gln	Leu	Lys	Ala	Gly	Gln	Val	
	130					135					140				

<210> 1762

<211> 143

<212> PRT

<213> Homo sapiens

<400> 1762

Met	Phe	Lys	Trp	Val	Arg	Arg	Thr	Leu	Ile	Ala	Leu	Val	Gln	Val	Thr
1				5				10					15		
Phe	Gly	Arg	Thr	Ile	Asn	Lys	Gln	Ile	Arg	Asp	Thr	Val	Ser	Trp	Ile
			20					25					30		
Phe	Ser	Glu	Gln	Met	Leu	Val	Tyr	Tyr	Ile	Asn	Ile	Phe	Arg	Asp	Ala
		35					40					45			
Phe	Trp	Pro	Asn	Gly	Lys	Leu	Ala	Pro	Pro	Thr	Thr	Ile	Arg	Ser	Lys
	50					55					60				
Glu	Gln	Ser	Gln	Glu	Thr	Lys	Gln	Arg	Ala	Gln	Gln	Lys	Leu	Leu	Glu
65					70					75					80
Asn	Ile	Pro	Asp	Met	Leu	Gln	Ser	Leu	Val	Gly	Gln	Gln	Asn	Ala	Arg
				85					90					95	

His	Gly	Ile	Ile	Lys	Ile	Phe	Asn	Ala	Leu	Gln	Glu	Thr	Arg	Ala	Asn
			100					105						110	
Lys	His	Leu	Leu	Tyr	Ala	Leu	Met	Glu	Leu	Leu	Leu	Ile	Glu	Leu	Cys
		115					120					125			
Pro	Glu	Leu	Arg	Val	His	Leu	Asp	Gln	Leu	Lys	Ala	Gly	Gln	Val	
	130					135					140				

<210> 1763  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 1763															
Met	Lys	Ser	Leu	Ile	Lys	Thr	Tyr	Phe	Leu	Leu	Trp	Thr	Leu	Lys	Lys
1				5					10					15	
Leu	Leu	Pro	Leu	Ser	Thr	Leu	Ile	Pro	Ile	Met	Leu	Ser	Pro	Leu	Asp
			20					25					30		
Ile	Phe	Phe	Ser	Asp	Asn	Pro	His	Ile	Asp	Cys	Ser	Gly	His	His	Phe
		35					40					45			
Val	Pro	Tyr	Leu	Leu	Ile	Gly	Leu	Asp	Thr	Asp	Pro	Gln	Phe	Thr	Cys
	50					55					60				
Leu	Tyr	Leu	Leu	Ile	Leu	Thr	Leu	Leu	Val	Phe	Val	Phe	Ser	Leu	Thr
65					70					75					80
Leu	Leu	Ser	Pro	Pro	Ser	Pro	Gly								
				85											

<210> 1764  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 1764															
Met	Lys	Ser	Leu	Ile	Lys	Thr	Tyr	Phe	Leu	Leu	Trp	Thr	Leu	Lys	Lys
1				5					10					15	
Leu	Leu	Pro	Leu	Ser	Thr	Leu	Ile	Pro	Ile	Met	Leu	Ser	Pro	Leu	Asp
			20					25					30		
Ile	Phe	Phe	Ser	Asp	Asn	Pro	His	Ile	Asp	Cys	Ser	Gly	His	His	Phe
		35					40					45			
Val	Pro	Tyr	Leu	Leu	Ile	Gly	Leu	Asp	Thr	Asp	Pro	Gln	Phe	Thr	Cys
	50					55					60				
Leu	Tyr	Leu	Leu	Ile	Leu	Thr	Leu	Leu	Val	Phe	Val	Phe	Ser	Leu	Thr
65					70					75					80

Leu Leu Ser Pro Pro Ser Pro Gly  
85

<210> 1765  
<211> 231  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (146)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (177)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (193)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (199)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (208)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (222)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (231)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1765  
Met Ala Leu Ser Ser Leu Ile Val Ile Leu Leu Val Val Phe Ala Leu  
1 5 10 15  
Val Leu His Gly Gln Asn Lys Lys Tyr Lys Asn Cys Ser Thr Gly Lys  
20 25 30  
Gly Ile Ser Thr Met Glu Glu Ser Val Thr Leu Asp Asn Gly Gly Phe  
35 40 45  
Ala Ala Leu Glu Leu Ser Ser Arg His Leu Asn Val Lys Ser Thr Phe

50		55		60
Ser Lys Lys Asn Gly Thr Arg Ser Pro Pro Arg Pro Ser Pro Gly Gly				
65		70		75 80
Leu His Tyr Ser Asp Glu Asp Ile Cys Asn Lys Tyr Asn Gly Ala Val				
	85		90	95
Leu Thr Glu Ser Val Ser Leu Lys Glu Lys Ser Ala Asp Ala Ser Glu				
	100		105	110
Ser Glu Ala Thr Asp Ser Asp Tyr Glu Asp Ala Leu Pro Lys His Ser				
	115		120	125
Phe Val Asn His Tyr Met Ser Asp Pro Thr Tyr Tyr Asn Ser Trp Lys				
	130		135	140
Arg Xaa Ala Gln Gly Pro Arg Thr Cys Ala Ala Gln Val Arg Gly Gly				
145		150		155 160
Gly Gly Leu Arg Gly Gly Arg Ala Ala Ala Pro Gly His His His Ala				
	165		170	175
Xaa Arg Gly Arg Arg Leu His Pro Arg Trp Pro Arg Arg Ala Asn Phe				
	180		185	190
Xaa Tyr Arg Leu Leu Leu Xaa Arg Val Ser Lys Ser Ala Ala Leu Xaa				
	195		200	205
Gln Gly Gly Thr Glu Ala Thr Phe Arg Ser Leu Phe Leu Xaa Arg Gln				
	210		215	220
Phe Asn Ser Asn Lys Leu Xaa				
225		230		

<210> 1766  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<400> 1766
Glu Gly Phe Phe Lys Arg Leu Phe Val Thr Ser Leu Gln Glu Ala Gly
1 5 10 15
Leu Phe Leu Phe Leu Phe Phe Leu Arg Glu Gly Val Phe His Trp Cys
20 25 30
Asn Gly Leu Ala Pro Pro Gly Pro Gly Arg Thr Ser Asp Leu Pro Ser
35 40 45
Pro Gly Phe Leu Arg Leu Gln Asp Gln Leu Gly Arg Val Lys Arg Gly
50 55 60
Glu Gly Val Glu Gly Gln Val Arg Ser Gln Ser Cys Pro Gly Arg Pro
65 70 75 80



Pro Ser Leu Ser Thr Ser Ser Ser Arg Glu Pro Ala Ala His Thr Leu  
85 90 95

Leu Asn Ala Gly His Pro Arg Arg Leu Leu Gly Phe Glu Glu Gln Thr  
100 105 110

Phe Phe Pro Gly Leu Ser Ala Phe Cys Pro Asn Phe Ile Cys Phe  
115 120 125

<210> 1767

<211> 240

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (192)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (222)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (235)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1767

Met Ala Leu Ser Ser Leu Ile Val Ile Leu Leu Val Val Phe Ala Leu  
1 5 10 15

Val Leu His Gly Gln Asn Lys Lys Tyr Lys Asn Cys Ser Thr Gly Lys  
20 25 30

Gly Ile Ser Thr Met Glu Glu Ser Val Thr Leu Asp Asn Gly Gly Phe  
35 40 45

Ala Ala Leu Glu Leu Ser Ser Arg His Leu Asn Val Lys Ser Thr Phe  
50 55 60

Ser Lys Lys Asn Gly Thr Arg Ser Pro Pro Arg Pro Ser Pro Gly Gly  
65 70 75 80

Leu His Tyr Ser Asp Glu Asp Ile Cys Asn Lys Tyr Asn Gly Ala Val  
85 90 95

Leu Thr Glu Ser Val Ser Leu Lys Glu Lys Ser Ala Asp Ala Ser Glu  
100 105 110

Ser Glu Ala Thr Asp Ser Asp Tyr Glu Asp Ala Leu Pro Lys His Ser  
115 120 125

Phe	Val	Asn	His	Tyr	Met	Ser	Asp	Pro	Thr	Tyr	Tyr	Asn	Ser	Trp	Lys
130						135					140				
Arg	Arg	Ala	Gln	Gly	Pro	Arg	Thr	Cys	Ala	Ala	Gln	Val	Arg	Gly	Gly
145					150					155					160
Gly	Gly	Leu	Arg	Gly	Gly	Arg	Ala	Ala	Ala	Pro	Gly	His	His	His	Ala
				165					170					175	
Glu	Arg	Gly	Arg	Arg	Leu	His	Pro	Arg	Trp	Pro	Arg	Arg	Ala	Asn	Xaa
			180					185					190		
Ala	His	Arg	Leu	Leu	Leu	Leu	Arg	Val	Ser	Lys	Ala	Pro	Arg	Leu	Pro
		195					200					205			
Gln	Gly	Gly	Thr	Glu	Ala	Thr	Phe	Arg	Ser	Leu	Phe	Leu	Xaa	Arg	Gln
	210					215					220				
Ser	Thr	Pro	Ile	Thr	Glu	Leu	Lys	Phe	Leu	Xaa	Lys	Lys	Lys	Lys	Ile
225					230					235					240

<210> 1768  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

<400> 1768															
Met	Tyr	Leu	Pro	Cys	Gln	Met	Ala	Cys	Ser	Leu	Phe	Val	Leu	Phe	Val
1				5					10					15	
Ile	Trp	Leu	Leu	Leu	Lys	Ile	Phe	Gln	Ala	Gly	Pro	Gln	Leu	Met	Ser
			20					25					30		
Leu	Ala	His	Gly	Ser	Ala	Thr	Leu	Val	Leu	Asp	Gly	Met	Asn	Ile	Phe
		35					40					45			
Gly	Pro	Ser	Gly	Tyr	Gly	Gln	Glu	Cys	Arg	Val	Ala	Cys	Asn	Tyr	Phe
	50					55					60				
Arg	Lys	Cys	Arg	Val	Pro	Ser	Trp	Ala	Arg	Cys	Leu	Met	Pro	Val	Ile
65					70					75					80
Pro	Ala	Leu	Trp	Glu	Ala	Glu	Ala	Ala	Asp	Gln	Leu	Arg	Leu	Gly	Val
				85					90					95	

<210> 1769  
 <211> 57

<212> PRT  
<213> Homo sapiens

<400> 1769  
Leu Tyr Gln Glu Lys Pro Leu Met Trp Pro Arg Thr Ser Leu Leu Tyr  
1 5 10 15  
Val Val Pro Arg Trp Leu Leu Pro Cys Ser Ser Leu Pro Cys Pro Leu  
20 25 30  
Pro Glu Ile Lys Asn Ser Leu Thr Glu Lys Lys Lys Lys Lys Lys Lys  
35 40 45  
Asn Lys Lys Lys Lys Lys Gly Arg Pro  
50 55

<210> 1770  
<211> 104  
<212> PRT  
<213> Homo sapiens

<400> 1770  
Met Tyr Leu Pro Cys Gln Met Ala Cys Ser Leu Phe Val Leu Phe Val  
1 5 10 15  
Ile Trp Leu Leu Leu Lys Ile Phe Gln Ala Gly Pro Gln Leu Met Ser  
20 25 30  
Leu Ala His Gly Ser Ala Thr Leu Val Leu Asp Gly Met Asn Ile Phe  
35 40 45  
Gly Pro Ser Gly Tyr Gly Gln Glu Cys Arg Val Ala Cys Asn Tyr Phe  
50 55 60  
Arg Lys Cys Arg Val Pro Ser Trp Ala Arg Cys Leu Met Pro Val Ile  
65 70 75 80  
Pro Ala Leu Trp Glu Ala Glu Ala Gly Arg Ser Ala Glu Val Arg Ser  
85 90 95  
Leu Arg Pro Ala Trp Pro Thr Trp  
100

<210> 1771  
<211> 206  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (176)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (180)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (188)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (189)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (198)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (200)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (206)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1771  
 Met Ala Asn Phe Lys Gly His Ala Leu Pro Gly Ser Phe Phe Leu Ile  
   1                  5                  10                  15  
 Ile Gly Leu Cys Trp Ser Val Lys Tyr Pro Leu Lys Tyr Phe Ser His  
                   20                  25                  30  
 Thr Arg Lys Asn Ser Pro Leu His Tyr Tyr Gln Arg Leu Glu Ile Val  
           35                  40                  45  
 Glu Ala Ala Ile Arg Thr Leu Phe Ser Val Thr Val Ser Gly Ile Val  
   50                  55                  60  
 Asp Met Leu Thr Tyr Leu Val Ser His Val Pro Leu Gly Val Asp Arg  
   65                  70                  75                  80  
 Leu Val Met Ala Val Ala Val Phe Met Glu Gly Phe Leu Phe Tyr Tyr  
                   85                  90                  95  
 His Val His Asn Arg Pro Pro Leu Asp Gln His Ile His Ser Leu Leu  
           100                  105                  110  
 Leu Tyr Ala Leu Phe Gly Gly Cys Val Ser Ile Ser Leu Glu Val Ile  
   115                  120                  125  
 Phe Arg Asp His Ile Val Leu Glu Leu Phe Arg Thr Ser Leu Ile Ile  
   130                  135                  140

Leu	Gln	Gly	Thr	Trp	Phe	Trp	Gln	Ile	Gly	Phe	Val	Leu	Phe	Pro	Pro
145					150					155					160
Phe	Gly	Thr	Pro	Glu	Trp	Asp	Gln	Lys	Asp	Asp	Ala	Asn	Leu	Met	Xaa
				165					170					175	
Ile	Thr	Met	Xaa	Phe	Cys	Cys	Thr	Thr	Trp	Leu	Xaa	Xaa	Thr	Leu	Trp
			180					185						190	
Pro	Gln	Leu	Phe	Ser	Xaa	Tyr	Xaa	Leu	Phe	Asp	Ser	Asp	Xaa		
		195					200					205			

<210> 1772  
 <211> 275  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (59)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1772

Met	Ala	Asn	Phe	Lys	Gly	His	Ala	Leu	Pro	Gly	Ser	Phe	Phe	Leu	Ile
1				5					10					15	
Ile	Gly	Leu	Cys	Trp	Ser	Val	Lys	Tyr	Pro	Leu	Lys	Tyr	Phe	Ser	His
			20					25					30		
Thr	Arg	Lys	Asn	Ser	Pro	Leu	His	Tyr	Tyr	Gln	Arg	Leu	Glu	Ile	Val
		35					40					45			
Glu	Ala	Ala	Ile	Arg	Thr	Leu	Phe	Ser	Val	Xaa	Gly	Ile	Leu	Ala	Glu
	50					55					60				
Gln	Phe	Val	Pro	Asp	Gly	Pro	His	Leu	His	Leu	Tyr	His	Glu	Asn	His
65					70					75				80	
Trp	Ile	Lys	Leu	Met	Asn	Trp	Gln	His	Ser	Thr	Met	Tyr	Leu	Phe	Phe
				85					90					95	
Ala	Val	Ser	Gly	Ile	Val	Asp	Met	Leu	Thr	Tyr	Leu	Val	Ser	His	Val
			100					105					110		
Pro	Leu	Gly	Val	Asp	Arg	Leu	Val	Met	Ala	Val	Ala	Val	Phe	Met	Glu
		115					120					125			
Gly	Phe	Leu	Phe	Tyr	Tyr	His	Val	His	Asn	Arg	Pro	Pro	Leu	Asp	Gln
		130				135					140				
His	Ile	His	Ser	Leu	Leu	Leu	Tyr	Ala	Leu	Phe	Gly	Gly	Cys	Val	Ser
145				150						155					160
Ile	Ser	Leu	Glu	Val	Ile	Phe	Arg	Asp	His	Ile	Val	Leu	Glu	Leu	Phe

				165					170					175	
Arg	Thr	Ser	Leu	Ile	Ile	Leu	Gln	Gly	Thr	Trp	Phe	Trp	Gln	Ile	Gly
			180					185					190		
Phe	Val	Leu	Phe	Pro	Pro	Phe	Gly	Thr	Pro	Glu	Trp	Asp	Gln	Lys	Asp
		195					200					205			
Asp	Ala	Asn	Leu	Met	Phe	Ile	Thr	Met	Cys	Phe	Cys	Trp	His	Tyr	Leu
	210					215					220				
Ala	Ala	Leu	Ser	Ile	Val	Ala	Val	Asn	Tyr	Ser	Leu	Val	Tyr	Cys	Leu
225					230					235					240
Leu	Thr	Arg	Met	Lys	Arg	His	Gly	Arg	Gly	Glu	Ile	Ile	Gly	Ile	Gln
				245					250					255	
Lys	Leu	Asn	Ser	Asp	Asp	Thr	Tyr	Gln	Thr	Ala	Leu	Leu	Ser	Gly	Ser
			260					265					270		
Asp	Glu	Glu													
		275													

<210> 1773  
 <211> 237  
 <212> PRT  
 <213> Homo sapiens

<400> 1773

Met	Ala	Asn	Phe	Lys	Gly	His	Ala	Leu	Pro	Gly	Ser	Phe	Phe	Leu	Ile
1				5					10					15	
Ile	Gly	Leu	Cys	Trp	Ser	Val	Lys	Tyr	Pro	Leu	Lys	Tyr	Phe	Ser	His
			20					25					30		
Thr	Arg	Lys	Asn	Ser	Pro	Leu	His	Tyr	Tyr	Gln	Arg	Leu	Glu	Ile	Val
		35					40					45			
Glu	Ala	Ala	Ile	Arg	Thr	Leu	Phe	Ser	Val	Thr	Val	Ser	Gly	Ile	Val
	50					55					60				
Asp	Met	Leu	Thr	Tyr	Leu	Val	Ser	His	Val	Pro	Leu	Gly	Val	Asp	Arg
65					70					75				80	
Leu	Val	Met	Ala	Val	Ala	Val	Phe	Met	Glu	Gly	Phe	Leu	Phe	Tyr	Tyr
				85					90					95	
His	Val	His	Asn	Arg	Pro	Pro	Leu	Asp	Gln	His	Ile	His	Ser	Leu	Leu
			100					105					110		
Leu	Tyr	Ala	Leu	Phe	Gly	Gly	Cys	Val	Ser	Ile	Ser	Leu	Glu	Val	Ile
		115					120					125			
Phe	Arg	Asp	His	Ile	Val	Leu	Glu	Leu	Phe	Arg	Thr	Ser	Leu	Ile	Ile
	130					135					140				

Leu Gln Gly Thr Trp Phe Trp Gln Ile Gly Phe Val Leu Phe Pro Pro  
 145 150 155 160  
 Phe Gly Thr Pro Glu Trp Asp Gln Lys Asp Asp Ala Asn Leu Met Phe  
 165 170 175  
 Ile Thr Met Cys Phe Cys Trp His Tyr Leu Ala Ala Leu Ser Ile Val  
 180 185 190  
 Ala Val Asn Tyr Ser Leu Val Tyr Cys Leu Leu Thr Arg Met Lys Arg  
 195 200 205  
 His Gly Arg Gly Glu Ile Ile Gly Ile Gln Lys Leu Asn Ser Asp Asp  
 210 215 220  
 Thr Tyr Gln Thr Ala Leu Leu Ser Gly Ser Asp Glu Glu  
 225 230 235

<210> 1774  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 1774  
 Met His Gly Met His Ala Ala Gly Thr Gly Thr Glu Leu Thr Leu Ser  
 1 5 10 15  
 Gly Cys Gln Pro Leu Ser Thr Leu Leu Leu Leu Leu Tyr Tyr Cys  
 20 25 30  
 Pro Ser Phe Val His Ser Ile Asn Met Cys Lys Ala Ala Ala Leu Ser  
 35 40 45  
 Leu Pro Trp Ala Ala Gly Gln His Arg Gly Gly Leu Ser Gly Gly Ala  
 50 55 60  
 Gly Glu Arg Met Ala  
 65

<210> 1775  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 1775  
 Met His Gly Met His Ala Ala Gly Thr Gly Thr Glu Leu Thr Leu Ser  
 1 5 10 15  
 Gly Cys Gln Pro Leu Ser Thr Leu Leu Leu Leu Leu Tyr Tyr Cys  
 20 25 30  
 Pro Ser Phe Val His Ser Ile Asn Met Cys Lys Ala Ala Ala Leu Ser





<210> 1777  
<211> 105  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (71)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (104)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1777  
Ile Leu Lys Val Leu Lys Val Trp Ser Phe Gln Leu Phe Gln Ile Ala  
1 5 10 15  
Val Cys Asp Phe Ser His Phe Tyr Leu Leu Arg Asn Ile His Lys Ile  
20 25 30  
Ile Pro Lys Met Lys Val His Phe Leu Phe Ser Pro Arg Leu Glu Arg  
35 40 45  
Gly Gly Leu Gly Cys Phe Met Arg Asn Val Phe Leu Asp Leu Arg Trp  
50 55 60  
Ser Gly Leu Pro Leu Leu Xaa Phe Pro Ala Phe Pro Pro His His Thr  
65 70 75 80  
Ala Ser Leu Gly Phe Leu Pro Val Ser Gln Asn Tyr Thr His Asp His  
85 90 95  
Pro Asn Ile Gly Ser Met Pro Xaa Leu  
100 105

<210> 1778  
<211> 489  
<212> PRT  
<213> Homo sapiens

<400> 1778  
Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu  
1 5 10 15  
Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys  
20 25 30  
Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu  
35 40 45

Glu	Arg	Thr	Arg	Val	Ser	Thr	Asp	Lys	Arg	Gln	Val	Lys	Arg	Thr	Gly
	50					55					60				
Leu	Val	Val	Val	Lys	Asn	Met	Lys	Ile	Val	Gly	Leu	His	Cys	Ser	Ser
65					70					75					80
Glu	Asp	Leu	His	Ala	Gly	Gln	Ile	Ala	Leu	Ile	Lys	His	Gly	Ser	Arg
				85					90					95	
Leu	Lys	Asn	Cys	Asp	Leu	Tyr	Phe	Ser	Arg	Lys	Pro	Cys	Ser	Ala	Cys
			100					105					110		
Leu	Lys	Met	Ile	Val	Asn	Ala	Gly	Val	Asn	Arg	Ile	Ser	Tyr	Trp	Pro
		115					120					125			
Ala	Asp	Pro	Glu	Ile	Ser	Leu	Leu	Thr	Glu	Ala	Ser	Ser	Ser	Glu	Asp
	130					135					140				
Ala	Lys	Leu	Asp	Ala	Lys	Ala	Val	Glu	Arg	Leu	Lys	Ser	Asn	Ser	Arg
145					150					155					160
Ala	His	Val	Cys	Val	Leu	Leu	Gln	Pro	Leu	Val	Cys	Tyr	Met	Val	Gln
				165					170					175	
Phe	Val	Glu	Glu	Thr	Ser	Tyr	Lys	Cys	Asp	Phe	Ile	Gln	Lys	Ile	Thr
			180					185					190		
Lys	Thr	Leu	Pro	Asp	Ala	Asn	Thr	Asp	Phe	Tyr	Tyr	Glu	Cys	Lys	Gln
		195					200					205			
Glu	Arg	Ile	Lys	Glu	Tyr	Glu	Met	Leu	Phe	Leu	Val	Ser	Asn	Glu	Glu
	210					215					220				
Met	His	Lys	Gln	Ile	Leu	Met	Thr	Ile	Gly	Leu	Glu	Asn	Leu	Cys	Glu
225					230					235					240
Asn	Pro	Tyr	Phe	Ser	Asn	Leu	Arg	Gln	Asn	Met	Lys	Asp	Leu	Ile	Leu
				245					250					255	
Leu	Leu	Ala	Thr	Val	Ala	Ser	Ser	Val	Pro	Asn	Phe	Lys	His	Phe	Gly
			260					265					270		
Phe	Tyr	Arg	Ser	Asn	Pro	Glu	Gln	Ile	Asn	Glu	Ile	His	Asn	Gln	Ser
		275					280					285			
Leu	Pro	Gln	Glu	Ile	Ala	Arg	His	Cys	Met	Val	Gln	Ala	Arg	Leu	Leu
	290					295					300				
Ala	Tyr	Arg	Thr	Glu	Asp	His	Lys	Thr	Gly	Val	Gly	Ala	Val	Ile	Trp
305					310					315					320
Ala	Glu	Gly	Lys	Ser	Arg	Ser	Cys	Asp	Gly	Thr	Gly	Ala	Met	Tyr	Phe
				325					330					335	
Val	Gly	Cys	Gly	Tyr	Asn	Ala	Phe	Pro	Val	Gly	Ser	Glu	Tyr	Ala	Asp
			340					345					350		

Phe Pro His Met Asp Asp Lys Gln Lys Asp Arg Glu Ile Arg Lys Phe  
 355 360 365  
 Arg Tyr Ile Ile His Ala Glu Gln Asn Ala Leu Thr Phe Arg Cys Gln  
 370 375 380  
 Glu Ile Lys Pro Glu Glu Arg Ser Met Ile Phe Val Thr Lys Cys Pro  
 385 390 395 400  
 Cys Asp Glu Cys Val Pro Leu Ile Lys Gly Ala Gly Ile Lys Gln Ile  
 405 410 415  
 Tyr Ala Gly Asp Val Asp Val Gly Lys Lys Lys Ala Asp Ile Ser Tyr  
 420 425 430  
 Met Arg Phe Gly Glu Leu Glu Gly Val Ser Lys Phe Thr Trp Gln Leu  
 435 440 445  
 Asn Pro Ser Gly Ala Tyr Gly Leu Glu Gln Asn Glu Pro Glu Arg Arg  
 450 455 460  
 Glu Asn Gly Val Leu Arg Pro Val Pro Gln Lys Glu Glu Gln His Gln  
 465 470 475 480  
 Asp Lys Lys Leu Arg Leu Gly Ile His  
 485

<210> 1779  
 <211> 267  
 <212> PRT  
 <213> Homo sapiens

<400> 1779  
 Met Thr Gly Gln Ile Pro Arg Leu Ser Lys Val Asn Leu Phe Thr Leu  
 1 5 10 15  
 Leu Ser Leu Trp Met Glu Leu Phe Pro Ala Glu Ala Gln Arg Gln Lys  
 20 25 30  
 Ser Gln Lys Asn Glu Glu Gly Lys His Gly Pro Leu Gly Asp Asn Glu  
 35 40 45  
 Glu Arg Thr Arg Val Ser Thr Asp Lys Arg Gln Val Lys Arg Thr Gly  
 50 55 60  
 Leu Val Val Val Lys Asn Met Lys Ile Val Gly Leu His Cys Ser Ser  
 65 70 75 80  
 Glu Asp Leu His Ala Gly Gln Ile Ala Leu Ile Lys His Gly Ser Arg  
 85 90 95  
 Leu Lys Asn Cys Asp Leu Tyr Phe Ser Arg Lys Pro Cys Ser Ala Cys  
 100 105 110  
 Leu Lys Met Ile Val Asn Ala Gly Val Asn Arg Ile Ser Tyr Trp Pro

115					120					125						
Ala	Asp	Pro	Glu	Ile	Ser	Leu	Leu	Thr	Glu	Ala	Ser	Ser	Ser	Glu	Asp	
130					135					140						
Ala	Lys	Leu	Asp	Ala	Lys	Ala	Val	Glu	Arg	Leu	Lys	Ser	Asn	Ser	Arg	
145					150					155					160	
Ala	His	Val	Cys	Val	Leu	Leu	Gln	Pro	Leu	Val	Cys	Tyr	Met	Val	Gln	
165					170					175						
Phe	Val	Glu	Glu	Thr	Ser	Tyr	Lys	Cys	Asp	Phe	Ile	Gln	Lys	Ile	Thr	
180					185					190						
Lys	Thr	Leu	Pro	Asp	Ala	Asn	Thr	Asp	Phe	Tyr	Tyr	Glu	Cys	Lys	Gln	
195					200					205						
Glu	Arg	Ile	Lys	Glu	Tyr	Glu	Met	Leu	Phe	Leu	Val	Ser	Asn	Glu	Glu	
210					215					220						
Met	His	Lys	Gln	Ile	Leu	Met	Thr	Ile	Gly	Leu	Glu	Asn	Leu	Cys	Glu	
225					230					235					240	
Asn	Pro	Tyr	Phe	Ser	Asn	Leu	Arg	Gln	Asn	Met	Lys	Asp	Leu	Ile	Leu	
245					250					255						
Leu	Leu	Ala	Thr	Val	Ala	Ser	Met	Cys	Arg	Leu						
260					265											

<210> 1780  
 <211> 196  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (157)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (169)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (171)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (172)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE  
 <222> (174)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (179)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (191)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1780  
 Met Tyr Leu Leu Glu Gln Ile Asp Met His Gly Phe Gly Gly Thr Ala  
   1                  5                  10                  15  
 Ala Thr Ser Pro Leu Thr Ala Val Phe Ser Leu Ser Arg Ser Leu Leu  
                   20                  25                  30  
 Ala Ala Ala Leu Leu Tyr Gly Phe Cys Leu Gly Ala Ile Lys Thr Pro  
           35                  40                  45  
 Trp Pro Glu Gln His Val Pro Val Leu Phe Ser Val Phe Cys Gly Leu  
       50                  55                  60  
 Leu Val Ala Leu Ser Tyr His Leu Ser Arg Gln Ser Ser Asp Pro Thr  
   65                  70                  75                  80  
 Val Leu Trp Ser Leu Ile Arg Ser Lys Leu Phe Pro Glu Leu Glu Glu  
                   85                  90                  95  
 Arg Ser Leu Glu Thr Ala Arg Ala Glu Pro Pro Asp Pro Leu Pro Asp  
           100                  105                  110  
 Lys Met Arg Gln Ser Val Arg Glu Val Leu His Ser Asp Leu Val Met  
       115                  120                  125  
 Cys Val Val Ile Ala Val Leu Thr Phe Ala Ile Ser Ala Ser Thr Val  
       130                  135                  140  
 Phe Ile Ala Leu Lys Ser Val Leu Gly Phe Val Leu Xaa Ala Leu Ala  
   145                  150                  155                  160  
 Gly Gly Arg Gly Leu Leu His Thr Xaa Pro Xaa Xaa Thr Xaa Pro Gln  
                   165                  170                  175  
 Asn Ser Xaa Pro Gly Ser Ala Cys His Ser Arg Ala Glu Thr Xaa Gly  
           180                  185                  190  
 Ile Gln Pro Gly  
       195

<210> 1781

<211> 62  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1781  
His Ile Ile Ser Ala His Val Ser Phe Thr Arg Lys Leu Ile Leu Tyr  
1 5 10 15  
Ser Asn Thr Trp Gln Xaa Ala Gly Ser Arg Ala Leu Arg Val Thr Leu  
20 25 30  
Ala Asp Gln Ser Pro Ile Pro Pro Phe Trp Val Val Gly Ser Leu Phe  
35 40 45  
Cys Pro Arg Xaa Ala Glu Ala Ser Glu Ser Leu Ser Val Pro  
50 55 60

<210> 1782  
<211> 577  
<212> PRT  
<213> Homo sapiens

<400> 1782  
Met Tyr Leu Leu Glu Gln Ile Asp Met His Gly Phe Gly Gly Thr Ala  
1 5 10 15  
Ala Thr Ser Pro Leu Thr Ala Val Phe Ser Leu Ser Arg Ser Leu Leu  
20 25 30  
Ala Ala Ala Leu Leu Tyr Gly Phe Cys Leu Gly Ala Ile Lys Thr Pro  
35 40 45  
Trp Pro Glu Gln His Val Pro Val Leu Phe Ser Val Phe Cys Gly Leu  
50 55 60  
Leu Val Ala Leu Ser Tyr His Leu Ser Arg Gln Ser Ser Asp Pro Thr  
65 70 75 80  
Val Leu Trp Ser Leu Ile Arg Ser Lys Leu Phe Pro Glu Leu Glu Glu  
85 90 95  
Arg Ser Leu Glu Thr Ala Arg Ala Glu Pro Pro Asp Pro Leu Pro Asp  
100 105 110  
Lys Met Arg Gln Ser Val Arg Glu Val Leu His Ser Asp Leu Val Met

115					120					125					
Cys	Val	Val	Ile	Ala	Val	Leu	Thr	Phe	Ala	Ile	Ser	Ala	Ser	Thr	Val
130						135					140				
Phe	Ile	Ala	Leu	Lys	Ser	Val	Leu	Gly	Phe	Val	Leu	Tyr	Ala	Leu	Ala
145					150					155					160
Gly	Ala	Val	Gly	Phe	Phe	Thr	His	Tyr	Leu	Leu	Pro	Gln	Leu	Arg	Lys
				165					170					175	
Gln	Leu	Pro	Trp	Phe	Cys	Leu	Ser	Gln	Pro	Val	Leu	Lys	Pro	Leu	Glu
			180					185					190		
Tyr	Ser	Gln	Tyr	Glu	Val	Arg	Gly	Ala	Ala	Gln	Val	Met	Trp	Phe	Glu
		195					200					205			
Lys	Leu	Tyr	Ala	Gly	Leu	Gln	Cys	Val	Glu	Lys	Tyr	Leu	Ile	Tyr	Pro
	210					215					220				
Ala	Val	Val	Leu	Asn	Ala	Leu	Thr	Val	Asp	Ala	His	Thr	Val	Val	Ser
225					230					235					240
His	Pro	Asp	Lys	Tyr	Cys	Phe	Tyr	Cys	Arg	Ala	Leu	Leu	Met	Thr	Val
			245						250					255	
Ala	Gly	Leu	Lys	Leu	Leu	Arg	Ser	Ala	Phe	Cys	Cys	Pro	Pro	Gln	Gln
			260					265						270	
Tyr	Leu	Thr	Leu	Ala	Phe	Thr	Val	Leu	Leu	Phe	His	Phe	Asp	Tyr	Pro
		275					280					285			
Arg	Leu	Ser	Gln	Gly	Phe	Leu	Leu	Asp	Tyr	Phe	Leu	Met	Ser	Leu	Leu
	290					295					300				
Cys	Ser	Lys	Leu	Trp	Asp	Leu	Leu	Tyr	Lys	Leu	Arg	Phe	Val	Leu	Thr
305					310					315					320
Tyr	Ile	Ala	Pro	Trp	Gln	Ile	Thr	Trp	Gly	Ser	Ala	Phe	His	Ala	Phe
				325					330					335	
Ala	Gln	Pro	Phe	Ala	Val	Pro	His	Ser	Ala	Met	Leu	Phe	Val	Gln	Ala
			340					345					350		
Leu	Leu	Ser	Gly	Leu	Phe	Ser	Thr	Pro	Leu	Asn	Pro	Leu	Leu	Gly	Ser
		355					360					365			
Ala	Val	Phe	Ile	Met	Ser	Tyr	Ala	Arg	Pro	Leu	Lys	Phe	Trp	Glu	Arg
	370					375					380				
Asp	Tyr	Asn	Thr	Lys	Arg	Val	Asp	His	Ser	Asn	Thr	Arg	Leu	Val	Thr
385					390					395					400
Gln	Leu	Asp	Arg	Asn	Pro	Gly	Ala	Asp	Asp	Asn	Asn	Leu	Asn	Ser	Ile
				405					410					415	
Phe	Tyr	Glu	His	Leu	Thr	Arg	Ser	Leu	Gln	His	Thr	Leu	Cys	Gly	Asp



420	425	430
Leu Val Leu Gly Arg Trp Gly Asn Tyr Gly Pro Gly Asp Cys Phe Val		
435	440	445
Leu Ala Ser Asp Tyr Leu Asn Ala Leu Val His Leu Ile Glu Val Gly		
450	455	460
Asn Gly Leu Val Thr Phe Gln Leu Arg Gly Leu Glu Phe Arg Gly Thr		
465	470	475
Tyr Cys Gln Gln Arg Glu Val Glu Ala Ile Thr Glu Gly Val Glu Glu		
485	490	495
Asp Glu Gly Cys Cys Cys Cys Glu Pro Gly His Leu Pro Arg Val Leu		
500	505	510
Ser Phe Asn Ala Ala Phe Gly Gln Arg Trp Leu Ala Trp Glu Val Thr		
515	520	525
Ala Ser Lys Tyr Val Leu Glu Gly Tyr Ser Ile Ser Asp Asn Asn Ala		
530	535	540
Ala Ser Met Leu Gln Val Phe Asp Leu Arg Lys Ile Leu Ile Thr Tyr		
545	550	555
Tyr Val Lys Val Arg Trp Ala Gly Val Ala Gly Gln Gln Gly Pro Cys		
565	570	575

Gly

<210> 1783  
 <211> 177  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (145)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (175)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1783  
 Met Lys Leu Leu Leu Leu His Pro Ala Phe Gln Ser Cys Leu Leu Leu  
 1 5 10 15

Thr Leu Leu Gly Leu Trp Arg Thr Thr Pro Glu Ala His Ala Ser Ser  
 20 25 30

Pro Gly Ala Pro Ala Ile Ser Ala Ala Ser Phe Leu Gln Asp Leu Ile



35	40	45
His Arg Tyr Gly Glu Gly Asp Ser Leu Thr Leu Gln Gln Leu Lys Ala		
50	55	60
Leu Leu Asn His Leu Asp Val Gly Val Gly Arg Gly Asn Val Thr Gln		
65	70	75 80
His Val Gln Gly His Arg Asn Leu Ser Thr Cys Phe Ser Ser Gly Asp		
	85	90 95
Leu Phe Thr Ala His Asn Phe Ser Glu Gln Ser Arg Ile Gly Ser Ser		
	100	105 110
Glu Leu Gln Glu Phe Cys Pro Thr Ile Leu Gln Gln Leu Asp Ser Arg		
	115	120 125
Ala Cys Thr Ser Glu Asn Gln Glu Asn Glu Glu Asn Glu Gln Thr Glu		
	130	135 140
Xaa Gly Arg Pro Ser Ala Val Glu Val Trp Gly Tyr Gly Leu Leu Cys		
145	150	155 160
Val Thr Val Ser Pro Ser Ala Pro Ser Trp Gly Pro Ala Trp Xaa Pro		
	165	170 175
Ser		

<210> 1784  
 <211> 492  
 <212> PRT  
 <213> Homo sapiens

<400> 1784

Met Lys Leu Leu Leu Leu His Pro Ala Phe Gln Ser Cys Leu Leu Leu		
1	5	10 15
Thr Leu Leu Gly Leu Trp Arg Thr Thr Pro Glu Ala His Ala Ser Ser		
	20	25 30
Pro Gly Ala Pro Ala Ile Ser Ala Ala Ser Phe Leu Gln Asp Leu Ile		
	35	40 45
His Arg Tyr Gly Glu Gly Asp Ser Leu Thr Leu Gln Gln Leu Lys Ala		
	50	55 60
Leu Leu Asn His Leu Asp Val Gly Val Gly Arg Gly Asn Val Thr Gln		
	65	70 75 80
His Val Gln Gly His Arg Asn Leu Ser Thr Cys Phe Ser Ser Gly Asp		
	85	90 95
Leu Phe Thr Ala His Asn Phe Ser Glu Gln Ser Arg Ile Gly Ser Ser		
	100	105 110

Glu	Leu	Gln	Glu	Phe	Cys	Pro	Thr	Ile	Leu	Gln	Gln	Leu	Asp	Ser	Arg	
		115					120					125				
Ala	Cys	Thr	Ser	Glu	Asn	Gln	Glu	Asn	Glu	Glu	Asn	Glu	Gln	Thr	Glu	
	130					135					140					
Glu	Gly	Arg	Pro	Ser	Ala	Val	Glu	Val	Trp	Gly	Tyr	Gly	Leu	Leu	Cys	
145					150					155					160	
Val	Thr	Val	Ile	Ser	Leu	Cys	Ser	Leu	Leu	Gly	Ala	Ser	Val	Val	Pro	
				165					170					175		
Phe	Met	Lys	Lys	Thr	Phe	Tyr	Lys	Arg	Leu	Leu	Leu	Tyr	Phe	Ile	Ala	
			180					185					190			
Leu	Ala	Ile	Gly	Thr	Leu	Tyr	Ser	Asn	Ala	Leu	Phe	Gln	Leu	Ile	Pro	
		195					200					205				
Glu	Ala	Phe	Gly	Phe	Asn	Pro	Leu	Glu	Asp	Tyr	Tyr	Val	Ser	Lys	Ser	
	210					215					220					
Ala	Val	Val	Phe	Gly	Gly	Phe	Tyr	Leu	Phe	Phe	Phe	Thr	Glu	Lys	Ile	
225					230					235					240	
Leu	Lys	Ile	Leu	Leu	Lys	Gln	Lys	Asn	Glu	His	His	His	Gly	His	Ser	
				245					250					255		
His	Tyr	Ala	Ser	Glu	Ser	Leu	Pro	Ser	Lys	Lys	Asp	Gln	Glu	Glu	Gly	
			260					265					270			
Val	Met	Glu	Lys	Leu	Gln	Asn	Gly	Asp	Leu	Asp	His	Met	Ile	Pro	Gln	
		275					280					285				
His	Cys	Ser	Ser	Glu	Leu	Asp	Gly	Lys	Ala	Pro	Met	Val	Asp	Glu	Lys	
	290					295					300					
Val	Ile	Val	Gly	Ser	Leu	Ser	Val	Gln	Asp	Leu	Gln	Ala	Ser	Gln	Ser	
305					310					315					320	
Ala	Cys	Tyr	Trp	Leu	Lys	Gly	Val	Arg	Tyr	Ser	Asp	Ile	Gly	Thr	Leu	
				325					330					335		
Ala	Trp	Met	Ile	Thr	Leu	Ser	Asp	Gly	Leu	His	Asn	Phe	Ile	Asp	Gly	
			340					345					350			
Leu	Ala	Ile	Gly	Ala	Ser	Phe	Thr	Val	Ser	Val	Phe	Gln	Gly	Ile	Ser	
		355					360					365				
Thr	Ser	Val	Ala	Ile	Leu	Cys	Glu	Glu	Phe	Pro	His	Glu	Leu	Gly	Asp	
		370				375					380					
Phe	Val	Ile	Leu	Leu	Asn	Ala	Gly	Met	Ser	Ile	Gln	Gln	Ala	Leu	Phe	
385					390					395					400	
Phe	Asn	Phe	Leu	Ser	Ala	Cys	Cys	Cys	Tyr	Leu	Gly	Leu	Ala	Phe	Gly	
				405					410					415		

Ile Leu Ala Gly Ser His Phe Ser Ala Asn Trp Ile Phe Ala Leu Ala  
 420 425 430  
 Gly Gly Met Phe Leu Tyr Ile Ser Leu Ala Asp Met Phe Pro Glu Met  
 435 440 445  
 Asn Glu Val Cys Gln Glu Asp Glu Arg Lys Gly Ser Ile Leu Ile Pro  
 450 455 460  
 Phe Ile Ile Gln Asn Leu Gly Leu Leu Thr Gly Phe Thr Ile Met Val  
 465 470 475 480  
 Val Leu Thr Met Tyr Ser Gly Gln Ile Gln Ile Gly  
 485 490

<210> 1785  
 <211> 192  
 <212> PRT  
 <213> Homo sapiens

<400> 1785  
 Met Gly Lys Ile Ser Val Ser Phe Leu Ile Phe Ala Phe Leu Phe Lys  
 1 5 10 15  
 Gly Phe Ser Ile Gly Lys Ala Thr Asp Arg Met Asp Ala Phe Arg Lys  
 20 25 30  
 Ala Lys Asn Arg Ala Val His His Leu His Tyr Ile Glu Arg Tyr Glu  
 35 40 45  
 Asp His Thr Ile Phe His Asp Ile Ser Leu Arg Phe Lys Arg Thr His  
 50 55 60  
 Ile Lys Met Lys Lys Gln Pro Lys Gly Tyr Gly Leu Arg Cys His Arg  
 65 70 75 80  
 Ala Ile Ile Thr Ile Cys Arg Leu Ile Gly Ile Lys Asp Met Tyr Ala  
 85 90 95  
 Lys Val Ser Gly Ser Ile Asn Met Leu Ser Leu Thr Gln Gly Leu Phe  
 100 105 110  
 Arg Gly Leu Ser Arg Gln Glu Thr His Gln Gln Leu Ala Asp Lys Lys  
 115 120 125  
 Gly Leu His Val Val Glu Ile Arg Glu Glu Cys Gly Pro Leu Pro Ile  
 130 135 140  
 Val Val Ala Ser Pro Arg Gly Pro Leu Arg Lys Asp Pro Glu Pro Glu  
 145 150 155 160  
 Asp Glu Val Pro Asp Val Lys Leu Asp Trp Glu Asp Val Lys Thr Ala  
 165 170 175

Gln Gly Met Lys Arg Ser Val Trp Ser Asn Leu Lys Arg Ala Ala Thr  
180 185 190

<210> 1786  
<211> 192  
<212> PRT  
<213> Homo sapiens

<400> 1786

Met Gly Lys Ile Ser Val Ser Phe Leu Ile Phe Ala Phe Leu Phe Lys  
1 5 10 15

Gly Phe Ser Ile Gly Lys Ala Thr Asp Arg Met Asp Ala Phe Arg Lys  
20 25 30

Ala Lys Asn Arg Ala Val His His Leu His Tyr Ile Glu Arg Tyr Glu  
35 40 45

Asp His Thr Ile Phe His Asp Ile Ser Leu Arg Phe Lys Arg Thr His  
50 55 60

Ile Lys Met Lys Lys Gln Pro Lys Gly Tyr Gly Leu Arg Cys His Arg  
65 70 75 80

Ala Ile Ile Thr Ile Cys Arg Leu Ile Gly Ile Lys Asp Met Tyr Ala  
85 90 95

Lys Val Ser Gly Ser Ile Asn Met Leu Ser Leu Thr Gln Gly Leu Phe  
100 105 110

Arg Gly Leu Ser Arg Gln Glu Thr His Gln Gln Leu Ala Asp Lys Lys  
115 120 125

Gly Leu His Val Val Glu Ile Arg Glu Glu Cys Gly Pro Leu Pro Ile  
130 135 140

Val Val Ala Ser Pro Arg Gly Pro Leu Arg Lys Asp Pro Glu Pro Glu  
145 150 155 160

Asp Glu Val Pro Asp Val Lys Leu Asp Trp Glu Asp Val Lys Thr Ala  
165 170 175

Gln Gly Met Lys Arg Ser Val Trp Ser Asn Leu Lys Arg Ala Ala Thr  
180 185 190

<210> 1787  
<211> 167

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (150)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1787  
Met Ile Gly Pro His Gly Tyr Ile Ser Ala Ser Asp Trp Pro Leu Met  
1 5 10 15  
Ile Phe Tyr Met Val Met Cys Ile Xaa Tyr Ile Leu Tyr Gly Ile Leu  
20 25 30  
Trp Leu Thr Trp Ser Ala Cys Tyr Trp Lys Asp Ile Leu Arg Ile Gln  
35 40 45  
Phe Trp Ile Ala Ala Val Ile Phe Leu Gly Met Leu Glu Lys Ala Val  
50 55 60  
Phe Tyr Ser Glu Tyr Gln Asn Ile Ser Asn Thr Gly Leu Ser Thr Gln  
65 70 75 80  
Gly Leu Leu Ile Phe Ala Glu Leu Ile Ser Ala Ile Lys Arg Thr Leu  
85 90 95  
Ala Arg Leu Leu Val Ile Ile Val Ser Leu Gly Tyr Gly Ile Val Lys  
100 105 110  
Pro Arg Leu Gly Thr Val Met His Arg Val Ile Gly Leu Gly Leu Leu  
115 120 125  
Tyr Leu Ile Phe Ala Ala Val Glu Gly Val Met Arg Val Ile Gly Gly  
130 135 140  
Ser Asn His Leu Ala Xaa Gly Leu Asp Asp Ile Ile Leu Ala Val Ile  
145 150 155 160  
Asp Ser Ile Phe Val Trp Val  
165

<210> 1788  
<211> 167  
<212> PRT  
<213> Homo sapiens

<400> 1788  
Met Ile Gly Pro His Gly Tyr Ile Ser Ala Ser Asp Trp Pro Leu Met  
1 5 10 15

Ile	Phe	Tyr	Met	Val	Met	Cys	Ile	Val	Tyr	Ile	Leu	Tyr	Gly	Ile	Leu			
			20					25					30					
Trp	Leu	Thr	Trp	Ser	Ala	Cys	Tyr	Trp	Lys	Asp	Ile	Leu	Arg	Ile	Gln			
		35					40					45						
Phe	Trp	Ile	Ala	Ala	Val	Ile	Phe	Leu	Gly	Met	Leu	Glu	Lys	Ala	Val			
	50					55					60							
Phe	Tyr	Ser	Glu	Tyr	Gln	Asn	Ile	Ser	Asn	Thr	Gly	Leu	Ser	Thr	Gln			
65					70				75						80			
Gly	Leu	Leu	Ile	Phe	Ala	Glu	Leu	Ile	Ser	Ala	Ile	Lys	Arg	Thr	Leu			
				85					90					95				
Ala	Arg	Leu	Leu	Val	Ile	Ile	Val	Ser	Leu	Gly	Tyr	Gly	Ile	Val	Lys			
		100						105					110					
Pro	Arg	Leu	Gly	Thr	Val	Met	His	Arg	Val	Ile	Gly	Leu	Gly	Leu	Leu			
		115					120					125						
Tyr	Leu	Ile	Phe	Ala	Ala	Val	Glu	Gly	Val	Met	Arg	Val	Ile	Gly	Gly			
	130					135					140							
Ser	Asn	His	Leu	Ala	Val	Val	Leu	Asp	Asp	Ile	Ile	Leu	Ala	Val	Ile			
145					150					155					160			
Asp	Ser	Ile	Phe	Val	Trp	Phe												
				165														

<210> 1789  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

Met	Val	His	Tyr	Ser	Trp	Cys	Ala	Leu	Phe	Cys	His	Phe	Ala	Gln	Gly			
1				5					10					15				
Thr	Cys	Leu	Gln	Asn	Ser	Phe	Gln	Ser	Gly	Leu	Val	Lys	Gly	Cys	Gln			
		20						25					30					
Gly	Ser	Thr	Gly	Gly	Asn	Gln	Gly	Ser	Phe	Gln	Ala	Ala	Lys	Met	Ser			
		35					40					45						
Pro	Val	Cys	Tyr	Ser	Gly	His	Thr	Gly	Trp	Leu	Ser	Arg	Pro	Trp	Ala			
	50					55					60							
Lys	Ser	Ile	Ser	Gln	Ser	Ala	Asp	Asp	Arg	Ser	Pro	Pro	Ser	Arg	Arg			
65				70					75						80			

Thr

<210> 1790  
<211> 81  
<212> PRT  
<213> Homo sapiens

<400> 1790  
Met Val His Tyr Ser Trp Cys Ala Leu Phe Cys His Phe Ala Gln Gly  
1 5 10 15  
Thr Cys Leu Gln Asn Ser Phe Gln Ser Gly Leu Val Lys Gly Cys Gln  
20 25 30  
Gly Ser Thr Gly Gly Asn Gln Gly Ser Phe Gln Ala Ala Lys Met Ser  
35 40 45  
Pro Val Cys Tyr Ser Gly His Thr Gly Trp Leu Ser Arg Pro Trp Ala  
50 55 60  
Lys Ser Ile Ser Gln Ser Ala Asp Asp Arg Ser Pro Pro Ser Arg Arg  
65 70 75 80

Thr

<210> 1791  
<211> 183  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (125)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1791  
Met Ala Leu Ala Arg Pro Gly Thr Pro Asp Pro Gln Ala Leu Ala Ser  
1 5 10 15  
Val Leu Leu Leu Leu Leu Trp Ala Pro Ala Leu Ser Leu Leu Ala Gly  
20 25 30  
Thr Val Pro Ser Glu Pro Pro Ser Ala Cys Ala Ser Asp Pro Cys Ala  
35 40 45  
Pro Gly Thr Glu Cys Gln Ala Thr Glu Ser Gly Gly Tyr Thr Cys Gly  
50 55 60  
Pro Met Glu Pro Arg Gly Cys Ala Thr Gln Xaa Cys His His Gly Ala

65		70		75		80									
Leu	Cys	Val	Pro	Gln	Gly	Pro	Asp	Pro	Asn	Gly	Phe	Arg	Cys	Tyr	Cys
				85					90					95	
Val	Pro	Gly	Phe	Gln	Gly	Pro	Arg	Cys	Glu	Leu	Asp	Ile	Asp	Glu	Cys
			100					105					110		
Ala	Ser	Arg	Pro	Cys	His	His	Gly	Ala	Thr	Leu	Pro	Xaa	Pro	Gly	Arg
		115					120					125			
Ser	Leu	Arg	Val	Pro	Leu	Pro	Leu	Gly	Tyr	Ala	Ala	Pro	His	Leu	Asn
	130					135					140				
Pro	Leu	Ser	Tyr	Val	Trp	Gly	Ile	Pro	His	Leu	Met	Arg	Gln	Arg	Leu
145					150					155					160
Pro	Pro	Asp	Gly	Asp	Ser	Lys	Ala	Asn	Asp	Ser	Lys	Lys	Leu	Gly	Pro
			165						170					175	
Gln	Lys	Ile	Tyr	Ser	Gly	Lys									
			180												

<210> 1792  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<400> 1792
Met Cys Phe Leu Leu Phe Gly Ser Leu Cys Ile Tyr Tyr Phe Ser Leu
1 5 10 15
Phe Leu Val Phe Phe Phe Phe Leu Phe Leu Phe Cys Leu Val Phe Cys
20 25 30
Ser Cys Leu His Cys Phe Arg Tyr Phe Phe Thr Pro Leu Asp Ser Pro
35 40 45
Arg Ala Gly Ser Arg Trp Ser Ser Tyr Ala Gln Leu Leu Pro Pro Pro
50 55 60
Pro Pro Pro Leu Val Glu His Ser Cys Asp Ala Asp Thr Ala Asn Leu
65 70 75 80
Gln Tyr Pro His Pro Arg Arg Arg Tyr Leu Ser Arg Pro Leu Asn Pro
85 90 95
Leu Pro Glu Asn Glu Gly Ile
100

<210> 1793  
 <211> 103  
 <212> PRT



<213> Homo sapiens

<400> 1793

Met Cys Phe Leu Leu Phe Gly Ser Leu Cys Ile Tyr Tyr Phe Ser Leu  
1 5 10 15  
Phe Leu Val Phe Phe Phe Phe Leu Phe Leu Phe Cys Leu Val Phe Cys  
20 25 30  
Ser Cys Leu His Cys Phe Arg Tyr Phe Phe Thr Pro Leu Asp Ser Pro  
35 40 45  
Arg Ala Gly Ser Arg Trp Ser Ser Tyr Ala Gln Leu Leu Pro Pro Pro  
50 55 60  
Pro Pro Pro Leu Val Glu His Ser Cys Asp Ala Asp Thr Ala Asn Leu  
65 70 75 80  
Gln Tyr Pro His Pro Arg Arg Arg Tyr Leu Ser Arg Pro Leu Asn Pro  
85 90 95  
Leu Pro Glu Asn Glu Gly Ile  
100

<210> 1794

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1794

Met Gly His Gly Arg Arg Leu Gly Arg His Leu Leu Ala Leu Pro Val  
1 5 10 15  
Thr Leu Ser Glu Arg Cys Leu Gly Ser Pro Val Glu Asn Glu Thr His  
20 25 30  
Ser Arg Asp Gly Thr Glu Leu Pro Asp Gly Ser Arg Glu Pro Ser Ser  
35 40 45  
Pro Arg Arg Val Ser Glu Ser Arg Val Thr Pro Ala Arg Thr Glu Glu  
50 55 60  
Pro Pro Ala Glu Pro Ser Leu Thr Pro Asp Leu Arg Xaa Asp Asn Ser  
65 70 75 80  
Arg Gly Ser Leu

<210> 1795  
<211> 84  
<212> PRT  
<213> Homo sapiens

<400> 1795  
Met Gly His Gly Arg Arg Leu Gly Arg His Leu Leu Ala Leu Pro Val  
1 5 10 15  
Thr Leu Ser Glu Arg Cys Leu Gly Ser Pro Val Glu Asn Glu Thr His  
20 25 30  
Ser Arg Asp Gly Thr Glu Leu Pro Asp Gly Ser Arg Glu Pro Ser Ser  
35 40 45  
Pro Arg Arg Val Ser Glu Ser Arg Val Thr Pro Ala Arg Thr Glu Glu  
50 55 60  
Pro Pro Ala Glu Pro Ser Leu Thr Pro Asp Leu Arg Leu Asp Asn Ser  
65 70 75 80  
Arg Gly Ser Leu

<210> 1796  
<211> 116  
<212> PRT  
<213> Homo sapiens

<400> 1796  
Met Gly Ser Gly Cys Pro Ala Gln Pro Thr Leu Ser Pro Trp Gly Ile  
1 5 10 15  
Leu Ser Arg Leu Leu Gly Val Leu Ala Gly Thr Ser Cys Gly Val Ser  
20 25 30  
Thr Pro Ala Ala Ala Gln Gly Gly Pro Glu Ile Gly Cys Arg Ala Pro  
35 40 45  
His Leu His Leu Ser Gly His Ala Pro Leu Ala Cys Pro Cys Ser Phe  
50 55 60  
Leu Pro Thr Ser Leu Gly Gly Val Cys Val Ser Ala Pro Ala Pro Ala  
65 70 75 80  
Leu Leu Ser Trp Gly Thr Leu Pro Ala Ile Trp Tyr Trp Gly Cys Pro  
85 90 95  
His Cys Leu Val Leu Gly Pro Gly Pro Ala His Ser Gly Leu Ala Leu  
100 105 110  
Leu Val Cys Ser  
115

<210> 1797  
<211> 171  
<212> PRT  
<213> Homo sapiens

<400> 1797  
Gly Pro Trp Pro Leu Cys Lys Ala Gln Arg Cys Ala Pro Asp Gln Pro  
1 5 10 15  
Ser Gly Leu Pro Trp Ala Arg Leu Gly Val Arg Val Ala His Trp Gly  
20 25 30  
Gly Gly Gly Leu Ala Arg His Ser Thr Leu Ala Gly Gly Pro Ser Gln  
35 40 45  
Arg Glu Pro Cys Arg Leu Arg Trp Ser Trp Pro Leu Ala Gly Cys Pro  
50 55 60  
Gly Ser Ala Pro Pro Leu Gln Gly Pro Ser Arg Asn Leu Leu Leu Asn  
65 70 75 80  
Gly Lys Ser Tyr Pro Thr Lys Val Arg Leu Ile Arg Gly Gly Ser Leu  
85 90 95  
Pro Pro Val Lys Arg Arg Arg Met Asn Trp Ile Asp Ala Pro Asp Asp  
100 105 110  
Val Phe Tyr Met Ala Thr Glu Glu Thr Arg Lys Ile Arg Lys Leu Leu  
115 120 125  
Ser Ser Ser Glu Thr Lys Arg Ala Ala Arg Arg Pro Tyr Lys Pro Ile  
130 135 140  
Ala Leu Arg Gln Ser Gln Ala Leu Pro Pro Arg Pro Pro Pro Pro Ala  
145 150 155 160  
Pro Val Asn Asp Glu Pro Ile Val Ile Glu Asp  
165 170

<210> 1798  
<211> 81  
<212> PRT  
<213> Homo sapiens

<400> 1798  
Met Leu Tyr Pro Arg Ile Phe Thr Asn Arg Gly Glu Leu Leu Pro Phe  
1 5 10 15  
Leu Phe Leu Thr Val Trp Leu Trp Leu Tyr Lys Leu Leu Phe Gly Glu  
20 25 30  
Ser Pro Arg Tyr Pro Asn Val Ile Gly Lys Thr Tyr Phe Phe Phe Trp  
35 40 45

Thr Asp Gln Ile Ser Arg Glu Ser Arg Phe Leu Glu Arg Leu Ala Phe  
50 55 60

Ile Val Ser Glu Asn Cys Leu Ile Phe Leu Ile His Ala Ile Thr Gly  
65 70 75 80

Gln

<210> 1799  
<211> 81  
<212> PRT  
<213> Homo sapiens

<400> 1799  
Met Leu Tyr Pro Arg Ile Phe Thr Asn Arg Gly Glu Leu Leu Pro Phe  
1 5 10 15

Leu Phe Leu Thr Val Trp Leu Trp Leu Tyr Lys Leu Leu Phe Gly Glu  
20 25 30

Ser Pro Arg Tyr Pro Asn Val Ile Gly Lys Thr Tyr Phe Phe Phe Trp  
35 40 45

Thr Asp Gln Ile Ser Arg Glu Ser Arg Phe Leu Glu Arg Leu Ala Phe  
50 55 60

Ile Val Ser Glu Asn Cys Leu Ile Phe Leu Ile His Ala Ile Thr Gly  
65 70 75 80

Gln

<210> 1800  
<211> 149  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (140)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1800  
Met Val Leu Leu Trp Ala Ser Val Leu Phe Pro Ala Pro Glu Asp Trp  
1 5 10 15

Ala Glu Leu Gln Gly Ala Val Tyr Arg Leu Leu Val Val Leu Leu Cys  
20 25 30

Cys Leu Ala Thr Arg Lys Leu Pro His Phe Leu His Pro Gln Arg Asn  
35 40 45

Leu Leu Gln Gly Ser Gly Leu Asp Leu Gly Ala Ile Tyr Gln Arg Val  
 50 55 60  
 Glu Gly Phe Ala Ser Gln Pro Glu Ala Ala Leu Arg Ile His Ala Thr  
 65 70 75 80  
 His Leu Gly Arg Ser Pro Pro Pro Arg Ile Gly Ser Gly Leu Lys Ala  
 85 90 95  
 Leu Leu Gln Leu Pro Ala Ser Asp Pro Thr Tyr Trp Ala Thr Ala Tyr  
 100 105 110  
 Phe Asp Val Leu Leu Asp Lys Phe Gln Val Phe Asn Ile Gln Asp Lys  
 115 120 125  
 Asp Arg Ile Ser Ala Met Gln Ser Ile Phe Gln Xaa Thr Arg Thr Leu  
 130 135 140  
 Gly Gly Glu Glu Ser  
 145

<210> 1801  
 <211> 149  
 <212> PRT  
 <213> Homo sapiens

<400> 1801  
 Met Val Leu Leu Trp Ala Ser Val Leu Phe Pro Ala Pro Glu Asp Trp  
 1 5 10 15  
 Ala Glu Leu Gln Gly Ala Val Tyr Arg Leu Leu Val Val Leu Leu Cys  
 20 25 30  
 Cys Leu Ala Thr Arg Lys Leu Pro His Phe Leu His Pro Gln Arg Asn  
 35 40 45  
 Leu Leu Gln Gly Ser Gly Leu Asp Leu Gly Ala Ile Tyr Gln Arg Val  
 50 55 60  
 Glu Gly Phe Ala Ser Gln Pro Glu Ala Ala Leu Arg Ile His Ala Thr  
 65 70 75 80  
 His Leu Gly Arg Ser Pro Pro Pro Arg Ile Gly Ser Gly Leu Lys Ala  
 85 90 95  
 Leu Leu Gln Leu Pro Ala Ser Asp Pro Thr Tyr Trp Ala Thr Ala Tyr  
 100 105 110  
 Phe Asp Val Leu Leu Asp Lys Phe Gln Val Phe Asn Ile Gln Asp Lys  
 115 120 125  
 Asp Arg Ile Ser Ala Met Gln Ser Ile Phe Gln Lys Thr Arg Thr Leu  
 130 135 140  
 Gly Gly Glu Glu Ser

145

<210> 1802  
<211> 140  
<212> PRT  
<213> Homo sapiens

<400> 1802  
Ile Pro Leu Cys Ser Ile Phe Gly Ala Leu Ile Ala Val Cys Leu Ile  
1 5 10 15  
Met Gly Leu Phe Asp Gly Cys Phe Ile Ser Ile Met Ala Pro Ile Ala  
20 25 30  
Phe Glu Leu Val Gly Ala Gln Asp Val Ser Gln Ala Ile Gly Phe Leu  
35 40 45  
Leu Gly Phe Met Ser Ile Pro Met Thr Val Gly Pro Pro Ile Ala Gly  
50 55 60  
Leu Leu Arg Asp Lys Leu Gly Ser Tyr Asp Val Ala Phe Tyr Leu Ala  
65 70 75 80  
Gly Val Pro Pro Leu Ile Gly Gly Ala Val Leu Cys Phe Ile Pro Trp  
85 90 95  
Ile His Ser Lys Lys Gln Arg Glu Ile Ser Lys Thr Thr Gly Lys Glu  
100 105 110  
Lys Met Glu Lys Met Leu Glu Asn Gln Asn Ser Leu Leu Ser Ser Ser  
115 120 125  
Ser Gly Met Phe Lys Lys Glu Ser Asp Ser Ile Ile  
130 135 140

<210> 1803  
<211> 234  
<212> PRT  
<213> Homo sapiens

<400> 1803  
Pro Thr Arg Pro Pro Thr Arg Pro Val Arg Val Ser Val Gly Gly Leu  
1 5 10 15  
Val Gly Glu Val Ala Cys Ala Cys Arg Asp Cys Ile Pro Glu Thr Met  
20 25 30  
Ala Glu Gly Asp Asn Arg Ser Thr Asn Leu Leu Ala Ala Glu Thr Ala  
35 40 45  
Ser Leu Glu Glu Gln Leu Gln Gly Trp Gly Glu Val Met Leu Met Ala  
50 55 60

Asp	Lys	Val	Leu	Arg	Trp	Glu	Arg	Ala	Trp	Phe	Pro	Pro	Ala	Ile	Met
65					70					75					80
Gly	Val	Val	Ser	Leu	Val	Phe	Leu	Ile	Ile	Tyr	Tyr	Leu	Asp	Pro	Ser
				85					90					95	
Val	Leu	Ser	Gly	Val	Ser	Cys	Phe	Val	Met	Phe	Leu	Cys	Leu	Ala	Asp
			100					105					110		
Tyr	Leu	Val	Pro	Ile	Leu	Ala	Pro	Arg	Ile	Phe	Gly	Ser	Asn	Lys	Trp
		115					120					125			
Thr	Thr	Glu	Gln	Gln	Gln	Arg	Phe	His	Glu	Ile	Cys	Ser	Asn	Leu	Val
		130				135					140				
Lys	Thr	Arg	Arg	Arg	Ala	Val	Gly	Trp	Trp	Lys	Arg	Leu	Phe	Thr	Leu
145					150					155					160
Lys	Glu	Glu	Lys	Pro	Lys	Met	Tyr	Phe	Met	Thr	Met	Ile	Val	Ser	Leu
				165					170					175	
Ala	Ala	Val	Ala	Trp	Val	Gly	Gln	Gln	Val	His	Asn	Leu	Leu	Leu	Thr
			180					185					190		
Tyr	Leu	Ile	Val	Thr	Ser	Leu	Leu	Leu	Leu	Pro	Gly	Leu	Asn	Gln	His
		195					200					205			
Gly	Ile	Ile	Leu	Lys	Tyr	Ile	Gly	Met	Ala	Lys	Arg	Glu	Ile	Asn	Lys
	210					215					220				
Leu	Leu	Lys	Gln	Lys	Glu	Lys	Lys	Asn	Glu						
225					230										

<210> 1804  
 <211> 155  
 <212> PRT  
 <213> Homo sapiens

<400> 1804															
Met	Gly	Val	Val	Ser	Leu	Val	Phe	Leu	Ile	Ile	Tyr	Tyr	Leu	Asp	Pro
1				5					10					15	
Ser	Val	Leu	Ser	Gly	Val	Ser	Cys	Phe	Val	Met	Phe	Leu	Cys	Leu	Ala
			20					25					30		
Asp	Tyr	Leu	Val	Pro	Ile	Leu	Ala	Pro	Arg	Ile	Phe	Gly	Ser	Asn	Lys
		35					40					45			
Trp	Thr	Thr	Glu	Gln	Gln	Gln	Arg	Phe	His	Glu	Ile	Cys	Ser	Asn	Leu
		50				55					60				
Val	Lys	Thr	Arg	Arg	Arg	Ala	Val	Gly	Trp	Trp	Lys	Arg	Leu	Phe	Thr
	65				70					75					80
Leu	Lys	Glu	Glu	Lys	Pro	Lys	Met	Tyr	Phe	Met	Thr	Met	Ile	Val	Ser

				85					90					95	
Leu	Ala	Ala	Val	Ala	Trp	Val	Gly	Gln	Gln	Val	His	Asn	Leu	Leu	Leu
			100					105					110		
Thr	Tyr	Leu	Ile	Val	Thr	Ser	Leu	Leu	Leu	Leu	Pro	Gly	Leu	Asn	Gln
		115					120					125			
His	Gly	Ile	Ile	Leu	Lys	Tyr	Ile	Gly	Met	Ala	Lys	Arg	Glu	Ile	Asn
	130					135					140				
Lys	Leu	Leu	Lys	Gln	Lys	Glu	Lys	Lys	Asn	Glu					
145					150					155					

<210> 1805  
 <211> 202  
 <212> PRT  
 <213> Homo sapiens

<400> 1805															
Met	Ala	Glu	Gly	Asp	Asn	Arg	Ser	Thr	Asn	Leu	Leu	Ala	Ala	Glu	Thr
1				5					10					15	
Ala	Ser	Leu	Glu	Glu	Gln	Leu	Gln	Gly	Trp	Gly	Glu	Val	Met	Leu	Met
			20					25					30		
Ala	Asp	Lys	Val	Leu	Arg	Trp	Glu	Arg	Ala	Trp	Phe	Pro	Pro	Ala	Ile
		35					40					45			
Met	Gly	Val	Val	Ser	Leu	Val	Phe	Leu	Ile	Ile	Tyr	Tyr	Leu	Asp	Pro
	50					55					60				
Ser	Val	Leu	Ser	Gly	Val	Ser	Cys	Phe	Val	Met	Phe	Leu	Cys	Leu	Ala
65					70					75					80
Asp	Tyr	Leu	Val	Pro	Ile	Leu	Ala	Pro	Arg	Ile	Phe	Gly	Ser	Asn	Lys
				85					90					95	
Trp	Thr	Thr	Glu	Gln	Gln	Gln	Arg	Phe	His	Glu	Ile	Cys	Ser	Asn	Leu
			100					105					110		
Val	Lys	Thr	Arg	Arg	Arg	Ala	Val	Gly	Trp	Trp	Lys	Arg	Leu	Phe	Thr
		115					120					125			
Leu	Lys	Glu	Glu	Lys	Pro	Lys	Met	Tyr	Phe	Met	Thr	Met	Ile	Val	Ser
	130					135					140				
Leu	Ala	Ala	Val	Ala	Trp	Val	Gly	Gln	Gln	Val	His	Asn	Leu	Leu	Leu
145					150					155					160
Thr	Tyr	Leu	Ile	Val	Thr	Ser	Leu	Leu	Leu	Leu	Pro	Gly	Leu	Asn	Gln
				165					170					175	
His	Gly	Ile	Ile	Leu	Lys	Tyr	Ile	Gly	Met	Ala	Lys	Arg	Glu	Ile	Asn
			180					185					190		



Lys Leu Leu Lys Gln Lys Lys Lys Lys Lys  
195 200

<210> 1806  
<211> 485  
<212> PRT  
<213> Homo sapiens

<400> 1806

Ala Arg Lys Pro Arg Ser Gln Ile Lys Asn Glu Ile Asn Ile Asp Thr  
1 5 10 15

Leu Ala Arg Asp Glu Phe Asn Leu Gln Lys Met Met Val Met Val Thr  
20 25 30

Ala Ser Gly Lys Leu Phe Gly Ile Glu Ser Ser Ser Gly Thr Ile Leu  
35 40 45

Trp Lys Gln Tyr Leu Pro Asn Val Lys Pro Asp Ser Ser Phe Lys Leu  
50 55 60

Met Val Gln Arg Thr Thr Ala His Phe Pro His Pro Pro Gln Cys Thr  
65 70 75 80

Leu Leu Val Lys Asp Lys Glu Ser Gly Met Ser Ser Leu Tyr Val Phe  
85 90 95

Asn Pro Ile Phe Gly Lys Trp Ser Gln Val Ala Pro Pro Val Leu Lys  
100 105 110

Arg Pro Ile Leu Gln Ser Leu Leu Leu Pro Val Met Asp Gln Asp Tyr  
115 120 125

Ala Lys Val Leu Leu Leu Ile Asp Asp Glu Tyr Lys Val Thr Ala Phe  
130 135 140

Pro Ala Thr Arg Asn Val Leu Arg Gln Leu His Glu Leu Ala Pro Ser  
145 150 155 160

Ile Phe Phe Tyr Leu Val Asp Ala Glu Gln Gly Arg Leu Cys Gly Tyr  
165 170 175

Arg Leu Arg Lys Asp Leu Thr Thr Glu Leu Ser Trp Glu Leu Thr Ile  
180 185 190

Pro Pro Glu Val Gln Arg Ile Val Lys Val Lys Gly Lys Arg Ser Ser  
195 200 205

Glu His Val His Ser Gln Gly Arg Val Met Gly Asp Arg Ser Val Leu  
210 215 220

Tyr Lys Ser Leu Asn Pro Asn Leu Leu Ala Val Val Thr Glu Ser Thr  
225 230 235 240

Asp Ala His His Glu Arg Thr Phe Ile Gly Ile Phe Leu Ile Asp Gly  
 245 250 255  
 Val Thr Gly Arg Ile Ile His Ser Ser Val Gln Lys Lys Ala Lys Gly  
 260 265 270  
 Pro Val His Ile Val His Ser Glu Asn Trp Val Val Tyr Gln Tyr Trp  
 275 280 285  
 Asn Thr Lys Ala Arg Arg Asn Glu Phe Thr Val Leu Glu Leu Tyr Glu  
 290 295 300  
 Gly Thr Glu Gln Tyr Asn Ala Thr Ala Phe Ser Ser Leu Asp Arg Pro  
 305 310 315 320  
 Gln Leu Pro Gln Val Leu Gln Gln Ser Tyr Ile Phe Pro Ser Ser Ile  
 325 330 335  
 Ser Ala Met Glu Ala Thr Ile Thr Glu Arg Gly Ile Thr Ser Arg His  
 340 345 350  
 Leu Leu Ile Gly Leu Pro Ser Gly Ala Ile Leu Ser Leu Pro Lys Ala  
 355 360 365  
 Leu Leu Asp Pro Arg Arg Pro Glu Ile Pro Thr Glu Gln Ser Arg Glu  
 370 375 380  
 Glu Asn Leu Ile Pro Tyr Ser Pro Asp Val Gln Ile His Ala Glu Arg  
 385 390 395 400  
 Phe Ile Asn Tyr Asn Gln Thr Val Ser Arg Met Arg Gly Ile Tyr Thr  
 405 410 415  
 Ala Pro Ser Gly Leu Glu Ser Thr Cys Leu Val Val Ala Tyr Gly Leu  
 420 425 430  
 Asp Ile Tyr Gln Thr Arg Val Tyr Pro Ser Lys Gln Phe Asp Val Leu  
 435 440 445  
 Lys Asp Asp Tyr Asp Tyr Val Leu Ile Ser Ser Val Leu Phe Gly Leu  
 450 455 460  
 Val Phe Ala Thr Met Ile Thr Lys Arg Leu Ala Gln Val Lys Leu Leu  
 465 470 475 480  
 Asn Arg Ala Trp Arg  
 485

<210> 1807  
 <211> 360  
 <212> PRT  
 <213> Homo sapiens

<400> 1807  
 Met Ala Ala Glu Trp Ala Ser Arg Phe Trp Leu Trp Ala Thr Leu Leu

1	5	10	15
Ile	Pro	Ala	Ala
20	Ala	Val	Tyr
Glu	Asp	Gln	Val
25	Gly	Lys	Phe
30	Asp	Trp	
Arg	Gln	Gln	Tyr
35	Val	Gly	Lys
40	Val	Lys	Phe
45	Ala	Ser	Leu
50	Glu	Phe	Ser
55	Pro	Gly	Ser
60	Lys	Lys	Leu
65	Val	Val	Ala
70	Thr	Glu	Lys
75	Asn	Val	Ile
80	Ala	Leu	Ala
85	Ala	Thr	Gly
90	Glu	Ile	Leu
95	Trp	Arg	His
100	Val	Asp	Lys
105	Gly	Thr	Ala
110	Glu	Gly	Ala
115	Val	Asp	Val
120	Met	Leu	Leu
125	Leu	His	Gly
130	Gln	Asp	Gln
135	Val	Thr	Val
140	Arg	Ser	Trp
145	Glu	Thr	Glu
150	Ile	Met	Thr
155	Arg	Arg	Ser
160	Ser	Trp	Glu
165	Thr	Thr	Thr
170	Leu	Ala	Leu
175	His	His	Leu
180	Ser	Ser	Gly
185	Val	Val	Val
190	Ala	Leu	Val
195	Trp	Ala	Val
200	Ser	Val	Glu
205	Thr	Val	Asp
210	Gln	His	Gly
215	Leu	Ser	Glu
220	Pro	Leu	Glu
225	Val	Val	Val
230	Ala	Val	Val
235	Leu	Val	Val
240	Leu	Val	Val
245	Leu	Val	Val
250	Leu	Val	Val
255	Leu	Val	Val
260	Leu	Val	Val
265	Leu	Val	Val
270	Leu	Val	Val
275	Leu	Val	Val
280	Leu	Val	Val
285	Leu	Val	Val
290	Leu	Val	Val
295	Leu	Val	Val
300	Leu	Val	Val
305	Leu	Val	Val
310	Leu	Val	Val
315	Leu	Val	Val
320	Leu	Val	Val
325	Leu	Val	Val
330	Leu	Val	Val
335	Leu	Val	Val
340	Leu	Val	Val
345	Leu	Val	Val
350	Leu	Val	Val
355	Leu	Val	Val
360	Leu	Val	Val
365	Leu	Val	Val
370	Leu	Val	Val
375	Leu	Val	Val
380	Leu	Val	Val
385	Leu	Val	Val
390	Leu	Val	Val
395	Leu	Val	Val
400	Leu	Val	Val
405	Leu	Val	Val
410	Leu	Val	Val
415	Leu	Val	Val
420	Leu	Val	Val
425	Leu	Val	Val
430	Leu	Val	Val
435	Leu	Val	Val
440	Leu	Val	Val
445	Leu	Val	Val
450	Leu	Val	Val
455	Leu	Val	Val
460	Leu	Val	Val
465	Leu	Val	Val
470	Leu	Val	Val
475	Leu	Val	Val
480	Leu	Val	Val
485	Leu	Val	Val
490	Leu	Val	Val
495	Leu	Val	Val
500	Leu	Val	Val

305                      310                      315                      320  
 Leu Val Ser Phe Ala Thr Thr Gly Glu Lys Thr Val Ala Ala Val Met  
                                  325                      330                      335  
 Ala Cys Arg Asn Glu Val Gln Lys Thr Ser Ser Ser Glu Asp Gly Ser  
                                  340                      345                      350  
 Met Gly Glu Leu Phe Gly Glu Val  
                                  355                      360

<210> 1808  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 1808  
 Met Arg Gly Ile Tyr Thr Ala Pro Ser Gly Leu Glu Ser Thr Cys Leu  
   1                                 5                                 10                                 15  
 Val Val Ala Tyr Gly Leu Asp Ile Tyr Gln Thr Arg Val Tyr Pro Ser  
                                  20                                 25                                 30  
 Lys Gln Phe Asp Val Leu Lys Asp Asp Tyr Asp Tyr Val Leu Ile Ser  
                                  35                                 40                                 45  
 Ser Val Leu Phe Gly Leu Val Phe Ala Thr Met Ile Thr Lys Arg Leu  
                                  50                                 55                                 60  
 Ala Gln Val Lys Leu Leu Asn Arg Ala Trp Arg  
   65                                 70                                 75

<210> 1809  
 <211> 136  
 <212> PRT  
 <213> Homo sapiens

<400> 1809  
 Glu Phe Gly Thr Arg Lys Glu Glu Glu Arg Val Ala Met Val Pro Arg  
   1                                 5                                 10                                 15  
 Leu Ala Phe Ile Leu Phe Val Leu Ala Arg Asp Tyr Asn Val Thr Ser  
                                  20                                 25                                 30  
 Leu Gly Gln Asp Leu Asn Trp Lys Tyr Glu Ala Lys Asp Tyr Arg Lys  
                                  35                                 40                                 45  
 Thr Gly Glu Leu Lys Asn Ile Gly Glu Cys Gly Arg Ser Tyr Lys Phe  
                                  50                                 55                                 60  
 Leu Ser Arg Asn Gln Asp Trp Asn Thr Arg Tyr Ser His Pro Asn Arg  
   65                                 70                                 75                                 80

Pro Ala Lys Tyr Ser Gly Ile Asp Glu Met Cys Lys Ala Gln Glu Ser  
85 90 95

Gly Leu Ser Pro Ser Lys Gln Leu Asn Arg Leu Ser Thr Leu Thr Ala  
100 105 110

Leu Lys Val Ser Gln Pro Val Lys Leu Ala Leu Phe Ser Arg Ser Pro  
115 120 125

Arg Arg Glu Ile Arg Val Gly Arg  
130 135

<210> 1810  
<211> 81  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (56)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1810  
Gly Leu His Phe Asn Ile Arg Val Asp His Gly Met Leu Trp Ala Pro  
1 5 10 15

Val Leu Tyr Lys Asp Val Gly Gln Glu Leu Pro Val Val Ser Thr Ala  
20 25 30

Pro Ser His Ile Ala Leu Leu Met Glu Pro Phe Thr Pro Asp Val Leu  
35 40 45

Ser Arg Leu Met Gly Arg Ile Xaa Val Cys Lys Asp Tyr Val Ile Asp  
50 55 60

Gln Leu Trp Ser Val Leu Lys Glu Ile Cys Gln Trp Ile Ile Pro Tyr  
65 70 75 80

Gly

<210> 1811  
<211> 91  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (78)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1811  
Met His Leu Gly Leu Val Ser Leu Ile Leu Phe Cys Gln Ala Leu Glu

1	5	10	15
Val Asp Ile Ser Leu Gln Gly Pro Gly Ile Val Pro Gly Arg Ser Glu			
20	25	30	
Val Ser Leu Ser Leu Gln Gly Pro Arg Gly Gly Gly Cys Phe Pro Ile			
35	40	45	
Ala Thr Gly Ala Pro Phe Ile Val Leu Leu Pro Leu Gly Leu Tyr Leu			
50	55	60	
Val Phe His Leu Cys Cys Phe Phe Gly Leu Phe Cys Ala Xaa Leu Arg			
65	70	75	80
Leu Arg Glu Pro Gly Trp Asp His Leu Ile Ile			
85	90		

<210> 1812  
 <211> 230  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (63)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1812

Met Gly Asn Ser Leu Ser Val Phe Cys Ser Trp Phe Cys Arg Arg Ser			
1	5	10	15
Trp Pro Cys His Arg Gln Pro Ala Arg Leu Val Arg Glu Ala Phe Pro			
20	25	30	
Ala Gly Arg Ala His Pro Ala Ala Pro Ala Pro Val Pro Ala Arg Gly			
35	40	45	
Ile Val Gly Arg Phe Pro Leu Leu Phe Asn Arg Gln Arg His Xaa Gly			
50	55	60	
Pro Xaa Phe Pro Val Arg Trp Asp Gly Ala Pro Met Arg Leu Cys Leu			
65	70	75	80
Ile Pro Arg Asn Thr Gly Thr Pro Gln Arg Val Leu Arg Pro Val Val			
85	90	95	
Trp Ser Pro Pro Ser Arg Lys Lys Pro Val Leu Ser Pro His Asn Ser			
100	105	110	
Ile Met Phe Gly His Leu Ser Pro Val Arg Ile Pro Cys Leu Arg Gly			

115					120					125					
Lys	Phe	Asn	Leu	Gln	Leu	Pro	Ser	Leu	Asp	Asp	Gln	Val	Ile	Pro	Ala
130						135					140				
Arg	Leu	Pro	Lys	Thr	Glu	Val	Ser	Ala	Glu	Glu	Pro	Lys	Glu	Ala	Thr
145					150					155					160
Glu	Val	Lys	Asp	Gln	Val	Glu	Thr	Gln	Gly	Gln	Glu	Asp	Asn	Lys	Arg
				165					170					175	
Gly	Pro	Cys	Ser	Asn	Gly	Glu	Ala	Ala	Ser	Thr	Ser	Arg	Pro	Leu	Glu
			180					185					190		
Thr	Gln	Gly	Asn	Leu	Thr	Ser	Ser	Trp	Tyr	Asn	Pro	Arg	Pro	Leu	Glu
		195					200					205			
Gly	Asn	Val	His	Leu	Lys	Ser	Leu	Thr	Glu	Lys	Asn	Gln	Thr	Asp	Lys
	210					215					220				
Ala	Gln	Val	His	Ala	Val										
225					230										

<210> 1813  
 <211> 232  
 <212> PRT  
 <213> Homo sapiens

<400> 1813															
Met	Gly	Asn	Ser	Leu	Ser	Val	Phe	Cys	Ser	Trp	Phe	Cys	Arg	Arg	Ser
1				5					10					15	
Trp	Pro	Cys	His	Arg	Gln	Pro	Ala	Arg	Leu	Val	Arg	Glu	Ala	Phe	Pro
			20					25					30		
Ala	Gly	Arg	Ala	His	Pro	Ala	Ala	Pro	Ala	Pro	Val	Pro	Ala	Arg	Gly
		35					40					45			
Ile	Val	Gly	Arg	Phe	Pro	Leu	Leu	Phe	Asn	Arg	Gln	Arg	His	Leu	Gly
	50					55					60				
Pro	Ser	Phe	Pro	Val	Arg	Trp	Asp	Gly	Ala	Pro	Met	Arg	Leu	Cys	Leu
65					70					75				80	
Ile	Pro	Arg	Asn	Thr	Gly	Thr	Pro	Gln	Arg	Val	Leu	Arg	Pro	Val	Val
			85					90						95	
Trp	Ser	Pro	Pro	Ser	Arg	Lys	Lys	Pro	Val	Leu	Ser	Pro	His	Asn	Ser
			100					105					110		
Ile	Met	Phe	Gly	His	Leu	Ser	Pro	Val	Arg	Ile	Pro	Cys	Leu	Arg	Gly
	115						120					125			
Lys	Phe	Asn	Leu	Gln	Leu	Pro	Ser	Leu	Asp	Asp	Gln	Val	Ile	Pro	Ala
130						135					140				



Arg	Leu	Pro	Lys	Thr	Glu	Val	Ser	Ala	Glu	Glu	Pro	Lys	Glu	Ala	Thr
145					150				155						160
Glu	Val	Lys	Asp	Gln	Val	Glu	Thr	Gln	Gly	Gln	Glu	Asp	Asn	Lys	Arg
				165					170					175	
Gly	Pro	Cys	Ser	Asn	Gly	Glu	Ala	Ala	Ser	Thr	Ser	Arg	Pro	Leu	Glu
			180					185					190		
Thr	Gln	Gly	Asn	Leu	Thr	Ser	Ser	Trp	Tyr	Asn	Pro	Arg	Pro	Leu	Glu
		195					200					205			
Gly	Asn	Val	His	Leu	Lys	Ser	Leu	Thr	Glu	Lys	Asn	Gln	Thr	Asp	Lys
	210					215					220				
Ala	Gln	Val	His	Ala	Val	Ser	Cys								
225					230										

<210> 1814  
 <211> 156  
 <212> PRT  
 <213> Homo sapiens

<400> 1814															
Met	Gln	Ile	Gln	Val	Ala	Gly	Leu	Leu	Gln	Phe	Ala	Val	Pro	Leu	Phe
1				5					10					15	
Ser	Thr	Ala	Glu	Glu	Asp	Leu	Leu	Ala	Ile	Gln	Leu	Leu	Leu	Asn	Ser
			20					25					30		
Ser	Glu	Ser	Ser	Leu	His	Gln	Leu	Thr	Ala	Met	Val	Asp	Cys	Arg	Gly
		35					40					45			
Leu	His	Lys	Asp	Tyr	Leu	Asp	Ala	Leu	Ala	Gly	Ile	Cys	Tyr	Asp	Gly
	50					55					60				
Leu	Gln	Gly	Leu	Leu	Tyr	Leu	Gly	Leu	Phe	Ser	Phe	Leu	Ala	Ala	Leu
65					70				75						80
Ala	Phe	Ser	Thr	Met	Ile	Cys	Ala	Gly	Pro	Arg	Ala	Trp	Lys	His	Phe
				85					90					95	
Thr	Thr	Arg	Asn	Arg	Asp	Tyr	Asp	Asp	Ile	Asp	Asp	Asp	Asp	Pro	Phe
			100					105						110	
Asn	Pro	Gln	Ala	Trp	Arg	Met	Ala	Ala	His	Ser	Pro	Pro	Arg	Gly	Gln
		115					120					125			
Leu	His	Ser	Phe	Cys	Ser	Tyr	Ser	Ser	Gly	Leu	Gly	Ser	Gln	Thr	Ser
	130					135					140				
Leu	Gln	Pro	Pro	Ala	Gln	Thr	Ile	Ser	Asn	Ala	Pro				
145					150					155					



<210> 1815  
<211> 213  
<212> PRT  
<213> Homo sapiens

<400> 1815  
Met Gln Ile Gln Val Ala Gly Leu Leu Gln Phe Ala Val Pro Leu Phe  
1 5 10 15  
Ser Thr Ala Glu Glu Asp Leu Leu Ala Ile Gln Leu Leu Leu Asn Ser  
20 25 30  
Ser Glu Ser Ser Leu His Gln Leu Thr Ala Met Val Asp Cys Arg Gly  
35 40 45  
Leu His Lys Asp Tyr Leu Asp Ala Leu Ala Gly Ile Cys Tyr Asp Gly  
50 55 60  
Leu Gln Gly Leu Leu Tyr Leu Gly Leu Phe Ser Phe Leu Ala Ala Leu  
65 70 75 80  
Ala Phe Ser Thr Met Ile Cys Ala Gly Pro Arg Ala Trp Lys His Phe  
85 90 95  
Thr Thr Arg Asn Arg Asp Tyr Asp Asp Ile Asp Asp Asp Asp Pro Phe  
100 105 110  
Asn Pro Gln Ala Trp Arg Met Ala Ala His Ser Pro Pro Arg Gly Gln  
115 120 125  
Leu His Ser Phe Cys Ser Tyr Ser Ser Gly Leu Gly Ser Gln Thr Ser  
130 135 140  
Leu Gln Pro Pro Ala Gln Thr Ile Ser Asn Ala Pro Val Ser Glu Tyr  
145 150 155 160  
Met Asn Gln Ala Met Leu Phe Gly Arg Asn Pro Arg Tyr Glu Asn Val  
165 170 175  
Pro Leu Ile Gly Arg Ala Ser Pro Pro Pro Thr Tyr Ser Pro Ser Met  
180 185 190  
Arg Ala Thr Tyr Leu Ser Val Ala Asp Glu His Leu Arg His Tyr Gly  
195 200 205  
Asn Gln Phe Pro Ala  
210

<210> 1816  
<211> 28  
<212> PRT  
<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 1816  
 Glu Cys Xaa Arg Lys Pro Thr Pro Arg Ala Glu Phe Leu Gln Pro Gly  
   1                  5                  10                  15  
  
 Gly Ser Thr Ser Ser Arg Ala Ala Ala Thr Ala Val  
                   20                  25

<210> 1817  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 1817  
 Met Leu Asn Pro Leu Arg Gln Leu Phe Lys Leu Met Ala Ser Leu Phe  
   1                  5                  10                  15  
  
 Leu Ser Val Phe Thr Leu Gly Leu Pro Phe Ala Leu Phe Gln Tyr Tyr  
                   20                  25                  30  
  
 Ala Tyr Thr Gln Phe Cys Leu Pro Gly Ser Ala Arg Pro Ile Pro Glu  
                   35                  40                  45  
  
 Pro Leu Val Gln Leu Ala Val Asp Lys Gly Tyr Arg Ile Ala Glu Gly  
                   50                  55                  60  
  
 Asn Glu Pro Leu Gly Ala Ser Gly Met Phe His  
   65                  70                  75

<210> 1818  
 <211> 280  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (94)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (95)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1818  
 Met His Ser Gln Cys Gln Gly Phe Phe Ser Ser Leu Thr Met Leu Asn  
   1                  5                  10                  15  
  
 Pro Leu Arg Gln Leu Phe Lys Leu Met Ala Ser Leu Phe Leu Ser Val

20					25					30					
Phe	Thr	Leu	Gly	Leu	Pro	Phe	Ala	Leu	Phe	Gln	Tyr	Tyr	Ala	Tyr	Thr
		35					40					45			
Gln	Phe	Cys	Leu	Pro	Gly	Ser	Ala	Arg	Pro	Ile	Pro	Glu	Pro	Leu	Val
	50					55					60				
Gln	Leu	Ala	Val	Asp	Lys	Gly	Tyr	Arg	Ile	Ala	Glu	Gly	Asn	Glu	Pro
65					70					75					80
Pro	Trp	Cys	Phe	Trp	Asp	Val	Pro	Leu	Ile	Tyr	Ser	Tyr	Xaa	Xaa	Asp
				85					90					95	
Val	Tyr	Trp	Asn	Val	Gly	Phe	Leu	Lys	Tyr	Tyr	Glu	Leu	Lys	Gln	Val
			100					105					110		
Pro	Asn	Phe	Leu	Leu	Ala	Ala	Pro	Val	Ala	Ile	Leu	Val	Ala	Trp	Ala
		115					120					125			
Thr	Trp	Thr	Tyr	Val	Thr	Thr	His	Pro	Trp	Leu	Cys	Leu	Thr	Leu	Gly
		130					135					140			
Leu	Gln	Arg	Ser	Lys	Asn	Asn	Lys	Thr	Leu	Glu	Lys	Pro	Asp	Leu	Gly
145						150					155				160
Phe	Leu	Ser	Pro	Gln	Val	Phe	Val	Tyr	Val	Val	His	Ala	Ala	Val	Leu
				165					170					175	
Leu	Leu	Phe	Gly	Gly	Leu	Cys	Met	His	Val	Gln	Val	Leu	Thr	Arg	Phe
			180					185					190		
Leu	Gly	Ser	Ser	Thr	Pro	Ile	Met	Tyr	Trp	Phe	Pro	Ala	His	Leu	Leu
		195					200					205			
Gln	Asp	Gln	Glu	Pro	Leu	Leu	Arg	Ser	Leu	Lys	Thr	Val	Pro	Trp	Lys
	210					215					220				
Pro	Leu	Ala	Glu	Asp	Ser	Pro	Pro	Gly	Gln	Lys	Val	Pro	Arg	Asn	Pro
225					230					235					240
Ile	Met	Gly	Leu	Leu	Tyr	His	Trp	Lys	Thr	Cys	Ser	Pro	Val	Thr	Arg
				245					250					255	
Tyr	Ile	Leu	Gly	Tyr	Phe	Leu	Thr	Tyr	Trp	Leu	Leu	Gly	Leu	Leu	Leu
			260					265					270		
His	Cys	Asn	Phe	Leu	Pro	Trp	Thr								
		275					280								

<210> 1819  
 <211> 273  
 <212> PRT  
 <213> Homo sapiens

<400> 1819

Met Leu Phe Phe Cys Gly Asp Leu Leu Ser Arg Ser Gln Ile Phe Tyr  
1 5 10 15

Tyr Ser Thr Gly Met Thr Val Gly Ile Val Ala Ser Leu Leu Ile Ile  
20 25 30

Ile Phe Ile Leu Ser Lys Phe Met Pro Lys Lys Ser Pro Ile Tyr Val  
35 40 45

Ile Leu Val Gly Gly Trp Ser Phe Ser Leu Tyr Leu Ile Gln Leu Val  
50 55 60

Phe Lys Asn Leu Gln Glu Ile Trp Arg Cys Tyr Trp Gln Tyr Leu Leu  
65 70 75 80

Ser Tyr Val Leu Thr Val Gly Phe Met Ser Phe Ala Val Cys Tyr Lys  
85 90 95

Tyr Gly Pro Leu Glu Asn Glu Arg Ser Ile Asn Leu Leu Thr Trp Thr  
100 105 110

Leu Gln Leu Met Gly Leu Cys Phe Met Tyr Ser Gly Ile Gln Ile Pro  
115 120 125

His Ile Ala Leu Ala Ile Ile Ile Ile Ala Leu Cys Thr Lys Asn Leu  
130 135 140

Glu His Pro Ile Gln Trp Leu Tyr Ile Thr Cys Arg Lys Val Cys Lys  
145 150 155 160

Gly Ala Glu Lys Pro Val Pro Pro Arg Leu Leu Thr Glu Glu Glu Tyr  
165 170 175

Arg Ile Gln Gly Glu Val Glu Thr Arg Lys Ala Leu Glu Glu Leu Arg  
180 185 190

Glu Phe Cys Asn Ser Pro Asp Cys Ser Ala Trp Lys Thr Val Ser Arg  
195 200 205

Ile Gln Ser Pro Lys Arg Phe Ala Asp Phe Val Glu Gly Ser Ser His  
210 215 220

Leu Thr Pro Asn Glu Val Ser Val His Glu Gln Glu Tyr Gly Leu Gly  
225 230 235 240

Ser Ile Ile Ala Gln Asp Glu Ile Tyr Glu Glu Ala Ser Ser Glu Glu  
245 250 255

Glu Asp Ser Tyr Ser Arg Cys Pro Ala Ile Thr Gln Asn Asn Phe Leu  
260 265 270

Thr

<210> 1820  
<211> 96  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (81)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (83)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (84)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (96)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1820  
Met Lys Val Ala Val Ser Pro Ala Val Gly Pro Gly Pro Trp Gly Ser  
1 5 10 15  
Gly Val Gly Gly Gly Gly Thr Val Arg Leu Leu Leu Ile Leu Ser Gly  
20 25 30  
Cys Leu Val Tyr Gly Thr Ala Glu Thr Asp Val Asn Val Val Met Leu  
35 40 45  
Gln Glu Ser Gln Val Cys Glu Lys Arg Ala Ser Gln Gln Phe Cys Tyr  
50 55 60  
Thr Asn Val Leu Ile Pro Lys Trp His Asp Ile Trp Thr Arg Ile Gln  
65 70 75 80  
Xaa Arg Xaa Xaa Ser Ser Arg Leu Val Arg Val Thr Gln Val Glu Xaa  
85 90 95

<210> 1821  
<211> 273  
<212> PRT  
<213> Homo sapiens

<400> 1821  
Met Leu Phe Phe Cys Gly Asp Leu Leu Ser Arg Ser Gln Ile Phe Tyr  
1 5 10 15

Tyr	Ser	Thr	Gly	Met	Thr	Val	Gly	Ile	Val	Ala	Ser	Leu	Leu	Ile	Ile	20	25	30
Ile	Phe	Ile	Leu	Ser	Lys	Phe	Met	Pro	Lys	Lys	Ser	Pro	Ile	Tyr	Val	35	40	45
Ile	Leu	Val	Gly	Gly	Trp	Ser	Phe	Ser	Leu	Tyr	Leu	Ile	Gln	Leu	Val	50	55	60
Phe	Lys	Asn	Leu	Gln	Glu	Ile	Trp	Arg	Cys	Tyr	Trp	Gln	Tyr	Leu	Leu	65	70	75
Ser	Tyr	Val	Leu	Thr	Val	Gly	Phe	Met	Ser	Phe	Ala	Val	Cys	Tyr	Lys	85	90	95
Tyr	Gly	Pro	Leu	Glu	Asn	Glu	Arg	Ser	Ile	Asn	Leu	Leu	Thr	Trp	Thr	100	105	110
Leu	Gln	Leu	Met	Gly	Leu	Cys	Phe	Met	Tyr	Ser	Gly	Ile	Gln	Ile	Pro	115	120	125
His	Ile	Ala	Leu	Ala	Ile	Ile	Ile	Ile	Ala	Leu	Cys	Thr	Lys	Asn	Leu	130	135	140
Glu	His	Pro	Ile	Gln	Trp	Leu	Tyr	Ile	Thr	Cys	Arg	Lys	Val	Cys	Lys	145	150	155
Gly	Ala	Glu	Lys	Pro	Val	Pro	Pro	Arg	Leu	Leu	Thr	Glu	Glu	Glu	Tyr	165	170	175
Arg	Ile	Gln	Gly	Glu	Val	Glu	Thr	Arg	Lys	Ala	Leu	Glu	Glu	Leu	Arg	180	185	190
Glu	Phe	Cys	Asn	Ser	Pro	Asp	Cys	Ser	Ala	Trp	Lys	Thr	Val	Ser	Arg	195	200	205
Ile	Gln	Ser	Pro	Lys	Arg	Phe	Ala	Asp	Phe	Val	Glu	Gly	Ser	Ser	His	210	215	220
Leu	Thr	Pro	Asn	Glu	Val	Ser	Val	His	Glu	Gln	Glu	Tyr	Gly	Leu	Gly	225	230	235
Ser	Ile	Ile	Ala	Gln	Asp	Glu	Ile	Tyr	Glu	Glu	Ala	Ser	Ser	Glu	Glu	245	250	255
Glu	Asp	Ser	Tyr	Ser	Arg	Cys	Pro	Ala	Ile	Thr	Gln	Asn	Asn	Phe	Leu	260	265	270

Thr

<210> 1822

<211> 273

<212> PRT

<213> Homo sapiens

<400> 1822

Met	Leu	Phe	Phe	Cys	Gly	Asp	Leu	Leu	Ser	Arg	Ser	Gln	Ile	Phe	Tyr
1				5					10					15	
Tyr	Ser	Thr	Gly	Met	Thr	Val	Gly	Ile	Val	Ala	Ser	Leu	Leu	Ile	Ile
			20					25					30		
Ile	Phe	Ile	Leu	Ser	Lys	Phe	Met	Pro	Lys	Lys	Ser	Pro	Ile	Tyr	Val
		35					40					45			
Ile	Leu	Val	Gly	Gly	Trp	Ser	Phe	Ser	Leu	Tyr	Leu	Ile	Gln	Leu	Val
	50					55					60				
Phe	Lys	Asn	Leu	Gln	Glu	Ile	Trp	Arg	Cys	Tyr	Trp	Gln	Tyr	Leu	Leu
65					70					75					80
Ser	Tyr	Val	Leu	Thr	Val	Gly	Phe	Met	Ser	Phe	Ala	Val	Cys	Tyr	Lys
				85					90					95	
Tyr	Gly	Pro	Leu	Glu	Asn	Glu	Arg	Ser	Ile	Asn	Leu	Leu	Thr	Trp	Thr
			100					105					110		
Leu	Gln	Leu	Met	Gly	Leu	Cys	Phe	Met	Tyr	Ser	Gly	Ile	Gln	Ile	Pro
		115					120					125			
His	Ile	Ala	Leu	Ala	Ile	Ile	Ile	Ile	Ala	Leu	Cys	Thr	Lys	Asn	Leu
	130					135					140				
Glu	His	Pro	Ile	Gln	Trp	Leu	Tyr	Ile	Thr	Cys	Arg	Lys	Val	Cys	Lys
145					150					155					160
Gly	Ala	Glu	Lys	Pro	Val	Pro	Pro	Arg	Leu	Leu	Thr	Glu	Glu	Glu	Tyr
				165					170					175	
Arg	Ile	Gln	Gly	Glu	Val	Glu	Thr	Arg	Lys	Ala	Leu	Glu	Glu	Leu	Arg
			180					185					190		
Glu	Phe	Cys	Asn	Ser	Pro	Asp	Cys	Ser	Ala	Trp	Lys	Thr	Val	Ser	Arg
		195					200					205			
Ile	Gln	Ser	Pro	Lys	Arg	Phe	Ala	Asp	Phe	Val	Glu	Gly	Ser	Ser	His
	210					215					220				
Leu	Thr	Pro	Asn	Glu	Val	Ser	Val	His	Glu	Gln	Glu	Tyr	Gly	Leu	Gly
225					230					235					240
Ser	Ile	Ile	Ala	Gln	Asp	Glu	Ile	Tyr	Glu	Glu	Ala	Ser	Ser	Glu	Glu
				245					250					255	
Glu	Asp	Ser	Tyr	Ser	Arg	Cys	Pro	Ala	Ile	Thr	Gln	Asn	Asn	Phe	Leu
			260					265					270		

Thr

<210> 1823  
<211> 105  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1823  
Met Phe Ala Leu Ala Trp Lys Val Ile Phe Ser Val Met Leu Gln Asn  
1 5 10 15  
Pro Ile Arg Tyr Pro Ser Val Leu Gly Ile Lys Ser Ser Leu Leu Ser  
20 25 30  
Ser Leu Val Leu Val Met Val Trp Gly Asn Glu Lys Ser Gly Pro Cys  
35 40 45  
Pro Thr Pro Lys Ser Arg Lys Gly Arg Arg Ser Cys Pro Ala Gln Val  
50 55 60  
Gly Arg Gly Glu Xaa Gly Ser Tyr Trp Asp Pro Glu Phe Arg Leu Ser  
65 70 75 80  
Arg Lys Ser Asn Gln Gly Leu Arg Arg Asp Tyr Leu Ser Leu Tyr His  
85 90 95  
Phe Asn Leu His Phe Arg Asp Thr Phe  
100 105

<210> 1824  
<211> 105  
<212> PRT  
<213> Homo sapiens

<400> 1824  
Met Phe Ala Leu Ala Trp Lys Val Ile Phe Ser Val Met Leu Gln Asn  
1 5 10 15  
Pro Ile Arg Tyr Pro Ser Val Leu Gly Ile Lys Ser Ser Leu Leu Ser  
20 25 30  
Ser Leu Val Leu Val Met Val Trp Gly Asn Glu Lys Ser Gly Pro Cys  
35 40 45  
Pro Thr Pro Lys Ser Arg Lys Gly Arg Arg Ser Cys Pro Ala Gln Val  
50 55 60  
Gly Arg Gly Glu Glu Gly Ser Tyr Trp Asp Pro Glu Phe Arg Leu Ser  
65 70 75 80



Arg Lys Ser Asn Gln Gly Leu Arg Arg Asp Tyr Leu Ser Leu Tyr His  
85 90 95

Phe Asn Leu His Phe Arg Asp Thr Phe  
100 105

<210> 1825  
<211> 94  
<212> PRT  
<213> Homo sapiens

<400> 1825  
Met Leu Leu Gly Phe Leu Val Leu Ile Pro Trp Gly Ser Leu Ile Leu  
1 5 10 15  
Gly Ser Ser Asp Leu Asp Pro Ser Ser Leu Pro Leu Gly Thr Arg Gly  
20 25 30  
His Gly Trp Arg Trp Pro Pro Leu Ser Pro Val Gln Ile Leu Tyr Pro  
35 40 45  
Leu Ala Gly Asp Pro His Ala Ala Val Ser Cys Ser Cys Cys Gly Glu  
50 55 60  
Thr Glu Leu Arg Ala Leu Leu Thr Gly Ser Leu Pro Met Glu Ala Phe  
65 70 75 80  
Ser Gly Leu His Ser Ile Glu Tyr Ser Ser Arg Thr Ala Cys  
85 90

<210> 1826  
<211> 94  
<212> PRT  
<213> Homo sapiens

<400> 1826  
Met Leu Leu Gly Phe Leu Val Leu Ile Pro Trp Gly Ser Leu Ile Leu  
1 5 10 15  
Gly Ser Ser Asp Leu Asp Pro Ser Ser Leu Pro Leu Gly Thr Arg Gly  
20 25 30  
His Gly Trp Arg Trp Pro Pro Leu Ser Pro Val Gln Ile Leu Tyr Pro  
35 40 45  
Leu Ala Gly Asp Pro His Ala Ala Val Ser Cys Ser Cys Cys Gly Glu  
50 55 60  
Thr Glu Leu Arg Ala Leu Leu Thr Gly Ser Leu Pro Met Glu Ala Phe  
65 70 75 80  
Ser Gly Leu His Ser Ile Glu Tyr Ser Ser Arg Thr Ala Cys  
85 90

<210> 1827  
<211> 261  
<212> PRT  
<213> Homo sapiens

<400> 1827

Met Ala Val Thr Ala Cys Gln Gly Leu Gly Phe Val Val Ser Leu Ile  
1 5 10 15

Gly Ile Ala Gly Ile Ile Ala Ala Thr Cys Met Asp Gln Trp Ser Thr  
20 25 30

Gln Asp Leu Tyr Asn Asn Pro Val Thr Ala Val Phe Asn Tyr Gln Gly  
35 40 45

Leu Trp Arg Ser Cys Val Arg Glu Ser Ser Gly Phe Thr Glu Cys Arg  
50 55 60

Gly Tyr Phe Thr Leu Leu Gly Leu Pro Ala Met Leu Gln Ala Val Arg  
65 70 75 80

Ala Leu Met Ile Val Gly Ile Val Leu Gly Ala Ile Gly Leu Leu Val  
85 90 95

Ser Ile Phe Ala Leu Lys Cys Ile Arg Ile Gly Ser Met Glu Asp Ser  
100 105 110

Ala Lys Ala Asn Met Thr Leu Thr Ser Gly Ile Met Phe Ile Val Ser  
115 120 125

Gly Leu Cys Ala Ile Ala Gly Val Ser Val Phe Ala Asn Met Leu Val  
130 135 140

Thr Asn Phe Trp Met Ser Thr Ala Asn Met Tyr Thr Gly Met Gly Gly  
145 150 155 160

Met Val Gln Thr Val Gln Thr Arg Tyr Thr Phe Gly Ala Ala Leu Phe  
165 170 175

Val Gly Trp Val Ala Gly Gly Leu Thr Leu Ile Gly Gly Val Met Met  
180 185 190

Cys Ile Ala Cys Arg Gly Leu Ala Pro Glu Glu Thr Asn Tyr Lys Ala  
195 200 205

Val Ser Tyr His Ala Ser Gly His Ser Val Ala Tyr Lys Pro Gly Gly  
210 215 220

Phe Lys Ala Ser Thr Gly Phe Gly Ser Asn Thr Lys Asn Lys Lys Arg  
225 230 235 240

Tyr Asp Gly Gly Ala Arg Thr Glu Asp Glu Val Gln Ser Tyr Pro Ser  
245 250 255

Lys His Asp Tyr Val  
260

<210> 1828  
<211> 261  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (125)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (127)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1828  
Met Ala Val Thr Ala Cys Gln Gly Leu Gly Phe Val Val Ser Leu Ile  
1 5 10 15  
Gly Ile Ala Gly Ile Ile Ala Ala Thr Cys Met Asp Gln Trp Ser Thr  
20 25 30  
Gln Asp Leu Tyr Asn Asn Pro Val Thr Ala Val Phe Asn Tyr Gln Gly  
35 40 45  
Leu Trp Arg Ser Cys Val Arg Glu Ser Ser Gly Phe Thr Glu Cys Arg  
50 55 60  
Gly Tyr Phe Thr Leu Leu Gly Leu Pro Ala Met Leu Gln Ala Val Arg  
65 70 75 80  
Ala Leu Met Ile Val Gly Ile Val Leu Gly Ala Ile Gly Leu Leu Val  
85 90 95  
Ser Ile Phe Ala Leu Lys Cys Ile Arg Ile Gly Ser Met Glu Asp Ser  
100 105 110  
Ala Lys Ala Asn Met Thr Leu Thr Ser Gly Ile Met Xaa Ile Xaa Ser  
115 120 125  
Gly Leu Cys Ala Ile Ala Gly Val Ser Val Phe Ala Asn Met Leu Val  
130 135 140  
Thr Asn Phe Trp Met Ser Thr Ala Asn Met Tyr Thr Gly Met Gly Gly  
145 150 155 160  
Met Val Gln Thr Val Gln Thr Arg Tyr Thr Phe Gly Ala Ala Leu Phe  
165 170 175  
Val Gly Trp Val Ala Gly Gly Leu Thr Leu Ile Gly Gly Val Met Met  
180 185 190

Cys	Ile	Ala	Cys	Arg	Gly	Leu	Ala	Pro	Glu	Glu	Thr	Asn	Tyr	Lys	Ala
		195					200					205			
Val	Ser	Tyr	His	Ala	Ser	Gly	His	Ser	Val	Ala	Tyr	Lys	Pro	Gly	Gly
		210				215					220				
Phe	Lys	Ala	Ser	Thr	Gly	Phe	Gly	Ser	Asn	Thr	Lys	Asn	Lys	Lys	Arg
225					230					235					240
Tyr	Asp	Gly	Gly	Ala	Arg	Thr	Glu	Asp	Glu	Val	Gln	Ser	Tyr	Pro	Ser
				245					250					255	
Lys	His	Asp	Tyr	Val											
				260											

<210> 1829  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 1829															
Met	Thr	Ser	Leu	Leu	Glu	Gly	Arg	Met	Val	Leu	Cys	Val	Ser	Cys	Leu
1				5					10					15	
Leu	Leu	Pro	Leu	Leu	Leu	Leu	Leu	Lys	His	Phe	Asn	Gly	Leu	Met	Thr
			20					25					30		
Pro	Tyr	Leu	Ala	His	Asn	Val	Tyr	Cys	Pro	Ile	Glu	Tyr	Ile	Ser	Phe
		35					40					45			
Phe	Pro	Phe	His	Glu	Lys	Asn	Ile	Glu	Tyr	Ile	Ser	Ile	Trp	Phe	Ile
	50					55					60				
Phe	Asp	Ser	Phe	Lys	Phe	Ile	Tyr	Ser	Arg	Leu	Leu	Cys	Ile	Ser	Gln
65					70					75					80
Ile	Tyr	Val	Leu	Tyr	Arg	Ala	Tyr	Thr	Leu	Pro	His				
			85						90						

<210> 1830  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 1830															
Met	Thr	Ser	Leu	Leu	Glu	Gly	Arg	Met	Val	Leu	Cys	Val	Ser	Cys	Leu
1				5					10					15	
Leu	Leu	Pro	Leu	Leu	Leu	Leu	Leu	Lys	His	Phe	Asn	Gly	Leu	Met	Thr
			20					25					30		
Pro	Tyr	Leu	Ala	His	Asn	Val	Tyr	Cys	Pro	Ile	Glu	Tyr	Ile	Ser	Phe
		35					40					45			

Phe Pro Phe His Glu Lys Asn Ile Glu Tyr Ile Ser Ile Trp Phe Ile  
50 55 60

Phe Asp Ser Phe Lys Phe Ile Tyr Ser Arg Leu Leu Cys Ile Ser Gln  
65 70 75 80

Ile Tyr Val Leu Tyr Arg Ala Tyr Thr Leu Pro His  
85 90

<210> 1831  
<211> 92  
<212> PRT  
<213> Homo sapiens

<400> 1831  
Met Thr Ser Leu Leu Glu Gly Arg Met Val Leu Cys Val Ser Cys Leu  
1 5 10 15

Leu Leu Pro Leu Leu Leu Leu Lys His Phe Asn Gly Leu Met Thr  
20 25 30

Pro Tyr Leu Ala His Asn Val Tyr Cys Pro Ile Glu Tyr Ile Ser Phe  
35 40 45

Phe Pro Phe His Glu Lys Asn Ile Glu Tyr Ile Ser Ile Trp Phe Ile  
50 55 60

Phe Asp Ser Phe Lys Phe Ile Tyr Ser Arg Leu Leu Cys Ile Ser Gln  
65 70 75 80

Ile Tyr Val Leu Tyr Arg Ala Tyr Thr Leu Pro His  
85 90

<210> 1832  
<211> 270  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (113)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (118)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (157)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (268)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1832

Gly	Glu	Glu	Phe	Gln	Pro	Glu	Gly	Ser	Lys	Cys	Thr	Lys	Cys	Ser	Cys
1				5					10					15	

Thr	Gly	Gly	Arg	Thr	Gln	Cys	Val	Arg	Glu	Val	Cys	Pro	Ile	Leu	Ser
			20					25					30		

Cys	Pro	Gln	His	Leu	Ser	His	Ile	Pro	Pro	Gly	Gln	Cys	Cys	Pro	Lys
		35					40					45			

Cys	Leu	Gly	Gln	Arg	Lys	Val	Phe	Asp	Leu	Pro	Phe	Gly	Ser	Cys	Leu
	50					55					60				

Phe	Arg	Ser	Asp	Val	Tyr	Asp	Asn	Gly	Ser	Ser	Phe	Leu	Tyr	Asp	Asn
65					70					75					80

Cys	Thr	Ala	Cys	Thr	Cys	Arg	Asp	Ser	Thr	Val	Val	Cys	Lys	Arg	Lys
				85					90					95	

Cys	Ser	His	Pro	Gly	Gly	Cys	Asp	Gln	Gly	Gln	Glu	Gly	Cys	Cys	Glu
			100					105					110		

Xaa	Cys	Leu	Leu	Arg	Xaa	Pro	Pro	Glu	Asp	Ile	Lys	Val	Cys	Lys	Phe
		115					120					125			

Gly	Asn	Lys	Ile	Phe	Gln	Asp	Gly	Glu	Met	Trp	Ser	Ser	Ile	Asn	Cys
	130					135					140				

Thr	Ile	Cys	Ala	Cys	Val	Lys	Gly	Arg	Thr	Glu	Cys	Xaa	Asn	Lys	Gln
145					150					155					160

Cys	Ile	Pro	Ile	Ser	Ser	Cys	Pro	Gln	Gly	Lys	Ile	Leu	Asn	Arg	Lys
				165					170					175	

Gly	Cys	Cys	Pro	Ile	Cys	Thr	Glu	Lys	Pro	Gly	Val	Cys	Thr	Val	Phe
			180					185					190		

Gly	Asp	Pro	His	Tyr	Asn	Thr	Phe	Asp	Gly	Arg	Thr	Phe	Asn	Phe	Gln
		195					200					205			

Gly	Thr	Cys	Gln	Tyr	Val	Leu	Thr	Lys	Asp	Cys	Ser	Ser	Pro	Ala	Ser
	210					215					220				

Pro	Phe	Gln	Val	Leu	Val	Lys	Asn	Asp	Ala	Arg	Arg	Thr	Arg	Ser	Phe
225					230					235					240

Ser	Trp	Thr	Lys	Ser	Val	Glu	Leu	Val	Leu	Gly	Glu	Thr	Gly	Ser	Ala
				245					250					255	

Cys	Ser	Ser	Thr	Ser	Pro	Cys	Ala	Gly	Thr	Ala	Xaa	Ala	Ser		
			260					265					270		

<210> 1833  
<211> 182  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (104)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (147)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (151)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (176)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (179)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1833  
Met Leu Trp Phe Ser Gly Val Gly Ala Leu Ala Glu Arg Tyr Cys Arg  
1 5 10 15  
Arg Ser Pro Gly Ile Thr Cys Cys Val Leu Leu Leu Leu Asn Cys Ser  
20 25 30  
Gly Val Pro Met Ser Leu Ala Ser Ser Phe Leu Thr Gly Ser Val Ala  
35 40 45  
Lys Cys Glu Asn Glu Gly Glu Val Leu Gln Ile Pro Phe Ile Thr Asp  
50 55 60  
Asn Pro Cys Ile Met Cys Val Cys Leu Asn Lys Glu Val Thr Cys Lys  
65 70 75 80  
Arg Glu Lys Cys Pro Val Leu Ser Arg Asp Cys Ala Leu Ala Ile Lys  
85 90 95  
Gln Arg Gly Ala Cys Cys Glu Xaa Cys Lys Gly Cys Thr Tyr Glu Gly  
100 105 110  
Asn Thr Tyr Asn Ser Ser Phe Lys Trp Gln Ser Pro Ala Glu Pro Cys  
115 120 125

Val	Leu	Arg	Gln	Cys	Gln	Glu	Gly	Val	Val	Thr	Glu	Ser	Gly	Val	Arg
130						135					140				
Cys	Val	Xaa	His	Cys	Lys	Xaa	Pro	Leu	Glu	His	Leu	Gly	Met	Cys	Cys
145					150					155					160
Pro	Thr	Cys	Pro	Gly	Cys	Val	Phe	Glu	Gly	Val	Gln	Tyr	Gln	Glu	Xaa
				165					170					175	
Glu	Glu	Xaa	Gln	Pro	Glu										
			180												

<210> 1834  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 1834															
Ser	Ser	Ser	Leu	Leu	Ile	Ile	Tyr	Val	Cys	Met	Met	Asp	Val	Thr	Ile
1				5					10					15	
Tyr	Met	Ser	Cys	Val	Glu	Ile	Lys	Gly	Cys	Leu	Asp	Ala	Met	Leu	Ile
			20					25					30		
Leu	Leu	Ser	Met	Arg	Lys	Tyr	Leu	Lys	Lys	Leu	Leu	His	Asn	Ile	
		35					40					45			

<210> 1835  
 <211> 445  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (147)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (288)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (293)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (332)  
 <223> Xaa equals any of the naturally occurring L-amino acids



<220>

<221> SITE

<222> (443)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1835

Met Leu Trp Phe Ser Gly Val Gly Ala Leu Ala Glu Arg Tyr Cys Arg  
1 5 10 15

Arg Ser Pro Gly Ile Thr Cys Cys Val Leu Leu Leu Leu Asn Cys Ser  
20 25 30

Gly Val Pro Met Ser Leu Ala Ser Ser Phe Leu Thr Gly Ser Val Ala  
35 40 45

Lys Cys Glu Asn Glu Gly Glu Val Leu Gln Ile Pro Phe Ile Thr Asp  
50 55 60

Asn Pro Cys Ile Met Cys Val Cys Leu Asn Lys Glu Val Thr Cys Lys  
65 70 75 80

Arg Glu Lys Cys Pro Val Leu Ser Arg Asp Cys Ala Leu Ala Ile Lys  
85 90 95

Gln Arg Gly Ala Cys Cys Glu Gln Cys Lys Gly Cys Thr Tyr Glu Gly  
100 105 110

Asn Thr Tyr Asn Ser Ser Phe Lys Trp Gln Ser Pro Ala Glu Pro Cys  
115 120 125

Val Leu Arg Gln Cys Gln Glu Gly Val Val Thr Glu Ser Gly Val Arg  
130 135 140

Cys Val Xaa His Cys Lys Asn Pro Leu Glu His Leu Gly Met Cys Cys  
145 150 155 160

Pro Thr Cys Pro Gly Cys Val Phe Glu Gly Val Gln Tyr Gln Glu Gly  
165 170 175

Glu Glu Phe Gln Pro Glu Gly Ser Lys Cys Thr Lys Cys Ser Cys Thr  
180 185 190

Gly Gly Arg Thr Gln Cys Val Arg Glu Val Cys Pro Ile Leu Ser Cys  
195 200 205

Pro Gln His Leu Ser His Ile Pro Pro Gly Gln Cys Cys Pro Lys Cys  
210 215 220

Leu Gly Gln Arg Lys Val Phe Asp Leu Pro Phe Gly Ser Cys Leu Phe  
225 230 235 240

Arg Ser Asp Val Tyr Asp Asn Gly Ser Ser Phe Leu Tyr Asp Asn Cys  
245 250 255

Thr Ala Cys Thr Cys Arg Asp Ser Thr Val Val Cys Lys Arg Lys Cys  
260 265 270

Ser His Pro Gly Gly Cys Asp Gln Gly Gln Glu Gly Cys Cys Glu Xaa  
 275 280 285  
 Cys Leu Leu Arg Xaa Pro Pro Glu Asp Ile Lys Val Cys Lys Phe Gly  
 290 295 300  
 Asn Lys Ile Phe Gln Asp Gly Glu Met Trp Ser Ser Ile Asn Cys Thr  
 305 310 315 320  
 Ile Cys Ala Cys Val Lys Gly Arg Thr Glu Cys Xaa Asn Lys Gln Cys  
 325 330 335  
 Ile Pro Ile Ser Ser Cys Pro Gln Gly Lys Ile Leu Asn Arg Lys Gly  
 340 345 350  
 Cys Cys Pro Ile Cys Thr Glu Lys Pro Gly Val Cys Thr Val Phe Gly  
 355 360 365  
 Asp Pro His Tyr Asn Thr Phe Asp Gly Arg Thr Phe Asn Phe Gln Gly  
 370 375 380  
 Thr Cys Gln Tyr Val Leu Thr Lys Asp Cys Ser Ser Pro Ala Ser Pro  
 385 390 395 400  
 Phe Gln Val Leu Val Lys Asn Asp Ala Arg Arg Thr Arg Ser Phe Ser  
 405 410 415  
 Trp Thr Lys Ser Val Glu Leu Val Leu Gly Glu Thr Gly Ser Ala Cys  
 420 425 430  
 Ser Ser Thr Ser Pro Cys Ala Gly Thr Ala Xaa Ala Ser  
 435 440 445

<210> 1836  
 <211> 370  
 <212> PRT  
 <213> Homo sapiens

<400> 1836  
 Leu Gly Gly Ala Arg Val Arg Arg Ala Val Gly Leu Ser Gly Thr Gly  
 1 5 10 15  
 Ala Glu Ala Gly Arg Ala Gly Ala Met Val Glu Lys Glu Glu Ala Gly  
 20 25 30  
 Gly Gly Ile Ser Glu Glu Glu Ala Ala Gln Tyr Asp Arg Gln Ile Arg  
 35 40 45  
 Leu Trp Gly Leu Glu Ala Gln Lys Arg Leu Arg Ala Ser Arg Val Leu  
 50 55 60  
 Leu Val Gly Leu Lys Gly Leu Gly Ala Glu Ile Ala Lys Asn Leu Ile  
 65 70 75 80  
 Leu Ala Gly Val Lys Gly Leu Thr Met Leu Asp His Glu Gln Val Thr

85						90						95				
Pro	Glu	Asp	Pro	Gly	Ala	Gln	Phe	Leu	Ile	Arg	Thr	Gly	Ser	Val	Gly	
			100				105						110			
Arg	Asn	Arg	Ala	Glu	Ala	Ser	Leu	Glu	Arg	Ala	Gln	Asn	Leu	Asn	Pro	
			115				120						125			
Met	Val	Asp	Val	Lys	Val	Asp	Thr	Glu	Asp	Ile	Glu	Lys	Lys	Pro	Glu	
			130				135						140			
Ser	Phe	Phe	Thr	Gln	Phe	Asp	Ala	Val	Cys	Leu	Thr	Cys	Cys	Ser	Arg	
145						150						155			160	
Asp	Val	Ile	Val	Lys	Val	Asp	Gln	Ile	Cys	His	Lys	Asn	Ser	Ile	Lys	
			165						170						175	
Phe	Phe	Thr	Gly	Asp	Val	Phe	Gly	Tyr	His	Gly	Tyr	Thr	Phe	Ala	Asn	
			180						185						190	
Leu	Gly	Glu	His	Glu	Phe	Val	Glu	Glu	Lys	Thr	Lys	Val	Ala	Lys	Val	
			195						200						205	
Ser	Gln	Gly	Val	Glu	Asp	Gly	Pro	Asp	Thr	Lys	Arg	Ala	Lys	Leu	Asp	
210						215						220				
Ser	Ser	Glu	Thr	Thr	Met	Val	Lys	Lys	Lys	Val	Val	Phe	Cys	Pro	Val	
225						230						235			240	
Lys	Glu	Ala	Leu	Glu	Val	Asp	Trp	Ser	Ser	Glu	Lys	Ala	Lys	Ala	Ala	
			245						250						255	
Leu	Lys	Arg	Thr	Thr	Ser	Asp	Tyr	Phe	Leu	Leu	Gln	Val	Leu	Leu	Lys	
			260						265						270	
Phe	Arg	Thr	Asp	Lys	Gly	Arg	Asp	Pro	Ser	Ser	Asp	Thr	Tyr	Glu	Glu	
			275						280						285	
Asp	Ser	Glu	Leu	Leu	Leu	Gln	Ile	Arg	Asn	Asp	Val	Leu	Asp	Ser	Leu	
290						295						300				
Gly	Ile	Ser	Pro	Asp	Leu	Leu	Pro	Glu	Asp	Phe	Val	Arg	Tyr	Cys	Phe	
305						310						315			320	
Ser	Glu	Met	Ala	Pro	Val	Cys	Ala	Val	Val	Gly	Gly	Ile	Leu	Ala	Gln	
			325						330						335	
Glu	Ile	Val	Lys	Ala	Leu	Ser	Gln	Arg	Asp	Pro	Pro	His	Asn	Asn	Phe	
			340						345						350	
Phe	Phe	Phe	Asp	Gly	Met	Lys	Gly	Asn	Gly	Ile	Val	Glu	Cys	Leu	Gly	
			355						360						365	
Pro	Lys															
370																

<210> 1837  
<211> 42  
<212> PRT  
<213> Homo sapiens

<400> 1837  
Met Val Pro Ser Val Thr Leu Ile Leu His Cys Pro Gly Phe Ser Thr  
1 5 10 15  
Glu Ser His Met Cys Gly Lys Pro Leu Ser Pro Arg Pro Thr Arg Thr  
20 25 30  
Val Gly Arg Pro Val Ser Asn Ile Pro Val  
35 40

<210> 1838  
<211> 89  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (17)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (47)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1838  
Val Gln Gly Val Val Gln Ala Leu Lys Thr Asp His Ala Phe Cys Pro  
1 5 10 15  
Xaa Leu Gln Gly Thr Glu Ser Ile Arg Leu Arg Ile Leu Glu Phe Glu  
20 25 30  
Leu Asn Gln Val Arg Ser Val Ser Gln Glu Leu Pro Pro Gly Xaa Pro  
35 40 45  
Glu Ser Pro Gln Thr Asp Gly Gln Pro Pro Arg Ala Trp Pro Gln Leu  
50 55 60  
Gly Met Pro Ser Asn Pro Thr Cys Phe Ser Phe Leu Pro Gly Tyr Ser  
65 70 75 80  
Gly Leu Arg Ser Ser Ala Leu Asn Phe  
85

<210> 1839  
<211> 346  
<212> PRT

<213> Homo sapiens

<400> 1839

Met	Val	Glu	Lys	Glu	Glu	Ala	Gly	Gly	Gly	Ile	Ser	Glu	Glu	Glu	Ala	
1				5				10						15		
Ala	Gln	Tyr	Asp	Arg	Gln	Ile	Arg	Leu	Trp	Gly	Leu	Glu	Ala	Gln	Lys	
			20					25					30			
Arg	Leu	Arg	Ala	Ser	Arg	Val	Leu	Leu	Val	Gly	Leu	Lys	Gly	Leu	Gly	
		35					40					45				
Ala	Glu	Ile	Ala	Lys	Asn	Leu	Ile	Leu	Ala	Gly	Val	Lys	Gly	Leu	Thr	
	50					55					60					
Met	Leu	Asp	His	Glu	Gln	Val	Thr	Pro	Glu	Asp	Pro	Gly	Ala	Gln	Phe	
65					70					75					80	
Leu	Ile	Arg	Thr	Gly	Ser	Val	Gly	Arg	Asn	Arg	Ala	Glu	Ala	Ser	Leu	
				85					90					95		
Glu	Arg	Ala	Gln	Asn	Leu	Asn	Pro	Met	Val	Asp	Val	Lys	Val	Asp	Thr	
			100					105					110			
Glu	Asp	Ile	Glu	Lys	Lys	Pro	Glu	Ser	Phe	Phe	Thr	Gln	Phe	Asp	Ala	
	115						120					125				
Val	Cys	Leu	Thr	Cys	Cys	Ser	Arg	Asp	Val	Ile	Val	Lys	Val	Asp	Gln	
	130					135					140					
Ile	Cys	His	Lys	Asn	Ser	Ile	Lys	Phe	Phe	Thr	Gly	Asp	Val	Phe	Gly	
145					150					155					160	
Tyr	His	Gly	Tyr	Thr	Phe	Ala	Asn	Leu	Gly	Glu	His	Glu	Phe	Val	Glu	
				165					170					175		
Glu	Lys	Thr	Lys	Val	Ala	Lys	Val	Ser	Gln	Gly	Val	Glu	Asp	Gly	Pro	
			180					185					190			
Asp	Thr	Lys	Arg	Ala	Lys	Leu	Asp	Ser	Ser	Glu	Thr	Thr	Met	Val	Lys	
		195					200					205				
Lys	Lys	Val	Val	Phe	Cys	Pro	Val	Lys	Glu	Ala	Leu	Glu	Val	Asp	Trp	
	210					215					220					
Ser	Ser	Glu	Lys	Ala	Lys	Ala	Ala	Leu	Lys	Arg	Thr	Thr	Ser	Asp	Tyr	
225					230					235					240	
Phe	Leu	Leu	Gln	Val	Leu	Leu	Lys	Phe	Arg	Thr	Asp	Lys	Gly	Arg	Asp	
			245						250					255		
Pro	Ser	Ser	Asp	Thr	Tyr	Glu	Glu	Asp	Ser	Glu	Leu	Leu	Leu	Gln	Ile	
			260					265					270			
Arg	Asn	Asp	Val	Leu	Asp	Ser	Leu	Gly	Ile	Ser	Pro	Asp	Leu	Leu	Pro	
		275					280					285				

Glu Asp Phe Val Arg Tyr Cys Phe Ser Glu Met Ala Pro Val Cys Ala  
 290 295 300

Val Val Gly Gly Ile Leu Ala Gln Glu Ile Val Lys Ala Leu Ser Gln  
 305 310 315 320

Arg Asp Pro Pro His Asn Asn Phe Phe Phe Phe Asp Gly Met Lys Gly  
 325 330 335

Asn Gly Ile Val Glu Cys Leu Gly Pro Lys  
 340 345

<210> 1840

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (125)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1840

Met Gln His Gln Leu His Leu Leu Ile Cys Trp Gly Lys Gly Ser Lys  
 1 5 10 15

Ser Asn Thr Ser Cys Leu Gly Pro Val Leu Ser Cys Ser Asn Met Trp  
 20 25 30

Ser Leu Ala Leu Leu Val Val Ala Gly Ser Met Gly Val Ala Tyr Ser  
 35 40 45

Ser Val Val Met Tyr Val Leu Leu Trp Val Pro Leu Pro Leu Pro Ser  
 50 55 60

His Phe Leu Pro Ser Gly Ala Pro Glu Ala Gln Pro Thr Thr Trp Ala  
 65 70 75 80

Gln Ser Pro His Ser Val Cys Lys Cys Gly Thr Xaa Leu Gly Pro Ala  
 85 90 95

Lys Pro Gln Gly Pro Ser Leu Pro Xaa Pro Pro Cys Leu Ile Met Leu  
 100 105 110  
 Leu Ser Cys Arg Arg Gln Leu Gly Leu Ala Pro Ser Xaa Trp Leu Pro  
 115 120 125  
 Gly Xaa Gly Ser His Gly Gly Glu Leu Arg Gly Cys Ser Gln Gly Trp  
 130 135 140  
 Ala Pro Gly Ile Ala His Leu Asn Ile Cys Thr  
 145 150 155

<210> 1841  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 1841  
 Tyr Thr Phe Gln Cys Leu Ser Gln Thr Cys Ser Tyr Asp Ile Lys Cys  
 1 5 10 15  
 Tyr Phe Leu Val Ala Lys Ile Ile Leu Asp Ser Val Ile Lys Val Tyr  
 20 25 30  
 Trp Asn Leu Asn Phe Lys Met Ser Pro Asp  
 35 40

<210> 1842  
 <211> 265  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (22)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1842  
 Pro Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr Ser Gly  
 1 5 10 15  
 Ser Pro Gly Leu Gln Xaa Phe Gly Thr Arg Arg Thr Arg Gly Arg Ser  
 20 25 30  
 Gly Arg Ala Gln Gly Arg Leu Lys Arg Pro Gly Lys Leu Ala Cys Arg  
 35 40 45  
 Lys Phe Pro Gly Arg Arg Gln Arg Val Val Pro Glu Leu Thr Asp Val  
 50 55 60  
 Leu Met Asn Glu Ile Leu His Gly Ala Asp Gly Thr Ser Ile Lys Cys  
 65 70 75 80



Gly	Ile	Ile	Gly	Glu	Ile	Gly	Cys	Ser	Trp	Pro	Leu	Thr	Glu	Ser	Glu			
				85					90					95				
Arg	Lys	Val	Leu	Gln	Ala	Thr	Ala	His	Ala	Gln	Ala	Gln	Leu	Gly	Cys			
			100					105					110					
Pro	Val	Ile	Ile	His	Pro	Gly	Arg	Ser	Ser	Arg	Ala	Pro	Phe	Gln	Ile			
		115					120					125						
Ile	Arg	Ile	Leu	Gln	Glu	Ala	Gly	Ala	Asp	Ile	Ser	Lys	Thr	Val	Met			
	130					135					140							
Ser	His	Leu	Asp	Arg	Thr	Ile	Leu	Asp	Lys	Lys	Glu	Leu	Leu	Glu	Phe			
145					150				155						160			
Ala	Gln	Leu	Gly	Cys	Tyr	Leu	Glu	Tyr	Asp	Leu	Phe	Gly	Thr	Glu	Leu			
				165					170					175				
Leu	His	Tyr	Gln	Leu	Gly	Pro	Asp	Ile	Asp	Met	Pro	Asp	Asp	Asn	Lys			
			180					185					190					
Arg	Ile	Arg	Arg	Val	Arg	Leu	Leu	Val	Glu	Glu	Gly	Cys	Glu	Asp	Arg			
		195				200						205						
Ile	Leu	Val	Ala	His	Asp	Ile	His	Thr	Lys	Thr	Arg	Leu	Met	Lys	Tyr			
	210					215					220							
Gly	Gly	His	Gly	Tyr	Ser	His	Ile	Leu	Thr	Asn	Val	Val	Pro	Lys	Met			
225					230					235					240			
Leu	Leu	Arg	Gly	Ile	Thr	Glu	Asn	Val	Leu	Asp	Lys	Ile	Leu	Ile	Glu			
				245					250					255				
Asn	Pro	Lys	Gln	Trp	Leu	Thr	Phe	Lys										
			260					265										

<210> 1843  
 <211> 503  
 <212> PRT  
 <213> Homo sapiens

<400> 1843  
 Met Glu Gln Arg His Val Leu Leu Lys Gln Lys Glu Leu Gly Gly Glu  
 1 5 10 15  
 Glu Pro Glu Pro Ser Leu Arg Glu Gly Pro Gly Gly Leu Val Met Glu  
 20 25 30  
 Gly His Leu Phe Lys Arg Ala Ser Asn Ala Phe Lys Thr Trp Ser Arg  
 35 40 45  
 Arg Trp Phe Thr Ile Gln Ser Asn Gln Leu Val Tyr Gln Lys Lys Tyr  
 50 55 60



Lys	Asp	Pro	Val	Thr	Val	Val	Val	Asp	Asp	Leu	Arg	Leu	Cys	Thr	Val	65	70	75	80
Lys	Leu	Cys	Pro	Asp	Ser	Glu	Arg	Arg	Phe	Cys	Phe	Glu	Val	Val	Ser	85	90	95	
Thr	Ser	Lys	Ser	Cys	Leu	Leu	Gln	Ala	Asp	Ser	Glu	Arg	Leu	Leu	Gln	100	105	110	
Leu	Trp	Val	Ser	Ala	Val	Gln	Ser	Ser	Ile	Ala	Ser	Ala	Phe	Ser	Gln	115	120	125	
Ala	Arg	Leu	Asp	Asp	Ser	Pro	Arg	Gly	Pro	Gly	Gln	Gly	Ser	Gly	His	130	135	140	
Leu	Ala	Ile	Gly	Ser	Ala	Ala	Thr	Leu	Gly	Ser	Gly	Gly	Met	Ala	Arg	145	150	155	160
Gly	Arg	Glu	Pro	Gly	Gly	Val	Gly	His	Val	Val	Ala	Gln	Val	Gln	Ser	165	170	175	
Val	Asp	Gly	Asn	Ala	Gln	Cys	Cys	Asp	Cys	Arg	Glu	Pro	Ala	Pro	Glu	180	185	190	
Trp	Ala	Ser	Ile	Asn	Leu	Gly	Val	Thr	Leu	Cys	Ile	Gln	Cys	Ser	Gly	195	200	205	
Ile	His	Arg	Ser	Leu	Gly	Val	His	Phe	Ser	Lys	Val	Arg	Ser	Leu	Thr	210	215	220	
Leu	Asp	Ser	Trp	Glu	Pro	Glu	Leu	Val	Lys	Leu	Met	Cys	Glu	Leu	Gly	225	230	235	240
Asn	Val	Ile	Ile	Asn	Gln	Ile	Tyr	Glu	Ala	Arg	Val	Glu	Ala	Met	Ala	245	250	255	
Val	Lys	Lys	Pro	Gly	Pro	Ser	Cys	Ser	Arg	Gln	Glu	Lys	Glu	Ala	Trp	260	265	270	
Ile	His	Ala	Lys	Tyr	Val	Glu	Lys	Lys	Phe	Leu	Thr	Lys	Leu	Pro	Glu	275	280	285	
Ile	Arg	Gly	Arg	Arg	Gly	Gly	Arg	Gly	Arg	Pro	Arg	Gly	Gln	Pro	Pro	290	295	300	
Val	Pro	Pro	Lys	Pro	Ser	Ile	Arg	Pro	Arg	Pro	Gly	Ser	Leu	Arg	Ser	305	310	315	320
Lys	Pro	Glu	Pro	Pro	Ser	Glu	Asp	Leu	Gly	Ser	Leu	His	Pro	Gly	Ala	325	330	335	
Leu	Leu	Phe	Arg	Ala	Ser	Gly	His	Pro	Pro	Ser	Leu	Pro	Thr	Met	Ala	340	345	350	
Asp	Ala	Leu	Ala	His	Gly	Ala	Asp	Val	Asn	Trp	Val	Asn	Gly	Gly	Gln	355	360	365	

Asp Asn Ala Thr Pro Leu Ile Gln Ala Thr Ala Ala Asn Ser Leu Leu  
 370 375 380  
 Ala Cys Glu Phe Leu Leu Gln Asn Gly Ala Asn Val Asn Gln Ala Asp  
 385 390 395 400  
 Ser Ala Gly Arg Gly Pro Leu His His Ala Thr Ile Leu Gly His Thr  
 405 410 415  
 Gly Leu Ala Cys Leu Phe Leu Lys Arg Gly Ala Asp Leu Gly Ala Arg  
 420 425 430  
 Asp Ser Glu Gly Arg Asp Pro Leu Thr Ile Ala Met Glu Thr Ala Asn  
 435 440 445  
 Ala Asp Ile Val Thr Leu Leu Arg Leu Ala Lys Met Arg Glu Ala Glu  
 450 455 460  
 Ala Ala Gln Gly Gln Ala Gly Asp Glu Thr Tyr Leu Asp Ile Phe Arg  
 465 470 475 480  
 Asp Phe Ser Leu Met Ala Ser Asp Asp Pro Glu Lys Leu Ser Arg Arg  
 485 490 495  
 Ser His Asp Leu His Thr Leu  
 500

<210> 1844  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 1844  
 Met Ser Pro Ser Ile Arg Ile Leu Leu Val Leu Gln Gln Leu Gly Ser  
 1 5 10 15  
 Leu Met Ala Pro Leu Pro Ser Ala His  
 20 25

<210> 1845  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 1845  
 Met Ser Pro Ser Ile Arg Ile Leu Leu Val Leu Gln Gln Leu Gly Ser  
 1 5 10 15  
 Leu Met Ala Pro Leu Pro Ser Ala His  
 20 25

<210> 1846  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 1846  
Val Phe Gln Ile Tyr Leu  
1 5

<210> 1847  
<211> 6  
<212> PRT  
<213> Homo sapiens

<400> 1847  
Val Phe Gln Ile Tyr Leu  
1 5

<210> 1848  
<211> 107  
<212> PRT  
<213> Homo sapiens

<400> 1848  
Met Leu Val Leu Leu Leu Asp Phe Leu Gly Leu Val His Leu Gly Gln  
1 5 10 15  
Leu Leu Ile Phe His Ile Tyr Leu Lys Ala Lys Lys Met Thr Thr Phe  
20 25 30  
Glu Tyr Leu Ile Asn Asn Arg Lys Glu Glu Ser Ser Lys His Gln Ala  
35 40 45  
Val Arg Lys Asp Pro Tyr Val Gln Met Asp Lys Gly Val Leu Gln Gln  
50 55 60  
Gly Ala Gly Ala Leu Gly Ser Ser Ala Gln Gly Val Lys Ala Lys Ser  
65 70 75 80  
Ser Leu Leu Ile His Lys His Leu Cys His Phe Cys Thr Ser Val Asn  
85 90 95  
Gln Asp Gly Asp Ser Thr Ala Arg Val His Leu  
100 105

<210> 1849  
<211> 245  
<212> PRT  
<213> Homo sapiens

<400> 1849

Met	Leu	Gln	Ala	Arg	Asn	Gln	Ser	Pro	Ser	Ser	Gln	Arg	Pro	Leu	Asp			
1				5					10					15				
Val	Leu	Arg	Arg	Asn	Gln	Asp	Pro	Gln	Ser	Pro	Ala	Ser	Ile	Ser	Val			
			20					25					30					
Ile	Ile	Phe	Ile	Thr	Pro	Lys	Glu	Glu	Pro	Ala	Leu	Gln	Glu	Gly	Leu			
		35					40					45						
His	Leu	Gln	Glu	Asp	Gly	Leu	Pro	Ala	Thr	Ala	Glu	Asp	Ala	Ala	Thr			
	50					55					60							
Cys	Leu	Thr	Val	Leu	Ser	Ser	Gln	Pro	Ala	Ser	Cys	Arg	Ala	Ser	Cys			
65					70					75					80			
Cys	Leu	Arg	Ala	Asp	Gly	Pro	Gly	Met	Leu	Ala	His	Thr	Cys	Glu	His			
				85					90					95				
Ser	Thr	Gly	Lys	Trp	Glu	His	Ser	Thr	Arg	Lys	Trp	Glu	His	Ser	Thr			
			100					105					110					
Gly	Lys	Trp	Glu	His	Ser	Thr	Gly	Lys	Trp	Gly	Leu	Thr	Ala	Leu	Gln			
		115					120					125						
Asn	Gly	Ser	Thr	Val	Leu	Gly	Asn	Gly	Ser	Thr	Val	Leu	Gly	Ser	Gly			
	130					135					140							
Ser	Thr	Val	Leu	Arg	Ser	Gly	Ser	Thr	Val	Leu	Arg	Asn	Gly	Ser	Thr			
145					150					155					160			
Leu	Leu	Arg	Asn	Gly	Ser	Thr	Val	Leu	Gly	Asn	Gly	His	Thr	Val	Leu			
				165					170					175				
Gly	Asn	Gly	His	Thr	Val	Leu	Arg	Asn	Gly	Ser	Thr	Val	Leu	Gly	Asn			
			180					185					190					
Gly	Ser	Thr	Val	Leu	Gly	Asn	Gly	Ser	Pro	Gln	Tyr	Trp	Glu	Arg	Gly			
		195					200					205						
Val	His	Ser	Thr	Arg	Lys	Trp	Glu	His	Ser	Thr	Gly	Lys	Trp	Glu	His			
	210					215					220							
Ser	Thr	Gly	Lys	Trp	Glu	His	Ser	Thr	Gly	Lys	Pro	Gln	Thr	Trp	Ile			
225					230					235					240			
Leu	Ser	Phe	Ser	Ala														
				245														

<210> 1850  
 <211> 209  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

<222> (136)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (161)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (169)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (197)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1850  
Met Ala Met Gly Leu Phe Arg Val Cys Leu Val Val Val Thr Ala Ile  
1 5 10 15  
Ile Asn His Pro Leu Leu Phe Pro Arg Glu Asn Ala Thr Val Pro Glu  
20 25 30  
Asn Glu Glu Glu Ile Ile Arg Lys Met Gln Ala His Gln Glu Lys Leu  
35 40 45  
Gln Leu Glu Gln Leu Arg Leu Glu Glu Glu Val Ala Arg Leu Ala Ala  
50 55 60  
Glu Lys Glu Ala Leu Glu Gln Val Ala Glu Glu Gly Arg Gln Gln Asn  
65 70 75 80  
Glu Thr Arg Val Ala Trp Asp Leu Trp Ser Thr Leu Cys Met Ile Leu  
85 90 95  
Phe Leu Met Ile Glu Val Trp Arg Gln Asp His Gln Glu Gly Pro Ser  
100 105 110  
Pro Glu Cys Leu Gly Gly Glu Glu Asp Glu Leu Pro Gly Trp Gly Ala  
115 120 125  
Pro Pro Cys Arg Ala Ser Pro Xaa Pro Thr Arg His Ala Cys His Phe  
130 135 140  
Tyr Glu Arg Cys Ile Arg Gly Ala Thr Ala Asp Ala Ala Arg Thr Arg  
145 150 155 160  
Xaa Phe Leu Glu Gly Phe Val Asp Xaa Leu Leu Glu Ala Leu Arg Ser  
165 170 175  
Leu Cys Asn Arg Asp Thr Asp Met Glu Val Glu Asp Phe Ile Gly Val  
180 185 190  
Asp Ser Met Tyr Xaa Asn Trp Gln Val Asp Arg Pro Leu Leu Cys His  
195 200 205

Leu

<210> 1851  
<211> 547  
<212> PRT  
<213> Homo sapiens

<400> 1851  
Met Ala Met Gly Leu Phe Arg Val Cys Leu Val Val Val Thr Ala Ile  
1 5 10 15  
Ile Asn His Pro Leu Leu Phe Pro Arg Glu Asn Ala Thr Val Pro Glu  
20 25 30  
Asn Glu Glu Glu Ile Ile Arg Lys Met Gln Ala His Gln Glu Lys Leu  
35 40 45  
Gln Leu Glu Gln Leu Arg Leu Glu Glu Glu Val Ala Arg Leu Ala Ala  
50 55 60  
Glu Lys Glu Ala Leu Glu Gln Val Ala Glu Glu Gly Arg Gln Gln Asn  
65 70 75 80  
Glu Thr Arg Val Ala Trp Asp Leu Trp Ser Thr Leu Cys Met Ile Leu  
85 90 95  
Phe Leu Met Ile Glu Val Trp Arg Gln Asp His Gln Glu Gly Pro Ser  
100 105 110  
Pro Glu Cys Leu Gly Gly Glu Glu Asp Glu Leu Pro Gly Leu Gly Gly  
115 120 125  
Ala Pro Leu Gln Gly Leu Thr Leu Pro Asn Lys Ala Thr Leu Gly His  
130 135 140  
Phe Tyr Glu Arg Cys Ile Arg Gly Ala Thr Ala Asp Ala Ala Arg Thr  
145 150 155 160  
Arg Glu Phe Leu Glu Gly Phe Val Asp Asp Leu Leu Glu Ala Leu Arg  
165 170 175  
Ser Leu Cys Asn Arg Asp Thr Asp Met Glu Val Glu Asp Phe Ile Gly  
180 185 190  
Val Asp Ser Met Tyr Glu Asn Trp Gln Val Asp Arg Pro Leu Leu Cys  
195 200 205  
His Leu Phe Val Pro Phe Thr Pro Pro Glu Pro Tyr Arg Phe His Pro  
210 215 220  
Glu Leu Trp Cys Ser Gly Arg Ser Val Pro Leu Asp Arg Gln Gly Tyr  
225 230 235 240

Gly	Gln	Ile	Lys	Val	Val	Arg	Ala	Asp	Gly	Asp	Thr	Leu	Ser	Cys	Ile	
				245					250					255		
Cys	Gly	Lys	Thr	Lys	Leu	Gly	Glu	Asp	Met	Leu	Cys	Leu	Leu	His	Gly	
			260					265					270			
Arg	Asn	Ser	Met	Ala	Pro	Pro	Cys	Gly	Asp	Met	Glu	Asn	Leu	Leu	Cys	
		275					280					285				
Ala	Thr	Asp	Ser	Leu	Tyr	Leu	Asp	Thr	Met	Gln	Val	Met	Lys	Trp	Phe	
	290					295					300					
Gln	Thr	Ala	Leu	Thr	Arg	Ala	Trp	Lys	Gly	Ile	Ala	His	Lys	Tyr	Glu	
305					310					315					320	
Phe	Asp	Leu	Ala	Phe	Gly	Gln	Leu	Asp	Ser	Pro	Gly	Ser	Leu	Lys	Ile	
				325					330					335		
Lys	Phe	Arg	Ser	Gly	Lys	Phe	Met	Pro	Phe	Asn	Leu	Ile	Pro	Val	Ile	
			340					345					350			
Gln	Cys	Asp	Asp	Ser	Asp	Leu	Tyr	Phe	Val	Ser	His	Leu	Pro	Arg	Glu	
		355					360					365				
Pro	Ser	Glu	Gly	Thr	Pro	Ala	Ser	Ser	Thr	Asp	Trp	Leu	Leu	Ser	Phe	
	370					375					380					
Ala	Val	Tyr	Glu	Arg	His	Phe	Leu	Arg	Thr	Thr	Leu	Lys	Ala	Leu	Pro	
385					390					395					400	
Glu	Gly	Ala	Cys	His	Leu	Ser	Cys	Leu	Gln	Ile	Ala	Ser	Phe	Leu	Leu	
				405					410					415		
Ser	Lys	Gln	Ser	Arg	Leu	Thr	Gly	Pro	Ser	Gly	Leu	Ser	Ser	Tyr	His	
			420					425					430			
Leu	Lys	Thr	Ala	Leu	Leu	His	Leu	Leu	Leu	Leu	Arg	Gln	Ala	Ala	Asp	
		435					440					445				
Trp	Lys	Ala	Gly	Gln	Leu	Asp	Ala	Arg	Leu	His	Glu	Leu	Leu	Cys	Phe	
	450					455					460					
Leu	Glu	Lys	Ser	Leu	Leu	Gln	Lys	Lys	Leu	His	His	Phe	Phe	Ile	Gly	
465					470					475					480	
Asn	Arg	Lys	Val	Pro	Glu	Ala	Met	Gly	Leu	Pro	Glu	Ala	Val	Leu	Arg	
				485					490					495		
Ala	Glu	Pro	Leu	Asn	Leu	Phe	Arg	Pro	Phe	Val	Leu	Gln	Arg	Ser	Leu	
			500					505					510			
Tyr	Arg	Lys	Thr	Leu	Asp	Ser	Phe	Tyr	Glu	Met	Leu	Lys	Asn	Ala	Pro	
		515					520					525				
Ala	Leu	Ile	Ser	Glu	Tyr	Ser	Leu	His	Val	Pro	Ser	Asp	Gln	Pro	Thr	
	530					535				540						



Pro Lys Ser  
545

<210> 1852  
<211> 213  
<212> PRT  
<213> Homo sapiens

<400> 1852  
Leu Leu Phe Leu Ser Leu Leu Gln Met Gln Glu Leu Leu Gly Arg Gly  
1 5 10 15  
Ala Trp Ala Pro Gly Cys Gly Arg Arg Pro Ser Gly Trp Gly Gln Leu  
20 25 30  
Ala Cys Pro Asp Pro Leu Leu Pro Pro His Asn Pro Lys Ser Pro Gln  
35 40 45  
Pro Gly Pro Ser Thr Ser Gly Val Trp Gly Glu Glu Gln Gly Leu Arg  
50 55 60  
Thr Leu Ser Ser Glu His Pro Trp Gln Gly Leu Gln Pro Leu Ile Ser  
65 70 75 80  
Ser Leu Lys Pro Cys Gly His Thr Ala Arg Arg Asp Leu Pro Leu Ala  
85 90 95  
Pro Ala Ser Phe Gln Pro Arg Val Leu Ile Gln Gly Pro Arg Thr Val  
100 105 110  
Pro Pro Val Leu Leu Cys Pro Gln His Lys Ala Arg Leu His Ser Gln  
115 120 125  
Lys Cys Ser Gln Ala Leu Glu Gly Asp Pro Ala Ser Ser Pro Thr Ala  
130 135 140  
Pro His Pro Thr His Pro Ser Ala Ala Pro Leu Leu Phe Pro Arg Asp  
145 150 155 160  
Leu Ser Tyr Thr Gly Gln Glu Ala Ala Glu Arg Val Ser Pro Pro Pro  
165 170 175  
Ser Lys Arg Ser Cys Ser Leu Cys Gln Asn Arg Val Trp Ala Gly Gly  
180 185 190  
Arg Ala Leu Gly Ala Arg Pro Leu Pro Leu Pro Ala Gly Phe Ser Trp  
195 200 205  
Ser Leu Cys Trp Lys  
210

<210> 1853  
<211> 179



<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (140)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (169)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1853  
Met Gly Met Gly Arg Gly Ala Gly Arg Ser Ala Leu Gly Phe Trp Pro  
1 5 10 15  
Thr Leu Ala Phe Leu Leu Cys Ser Phe Pro Ala Ala Thr Ser Pro Cys  
20 25 30  
Lys Ile Leu Lys Cys Asn Ser Glu Phe Trp Ser Ala Thr Ser Gly Ser  
35 40 45  
His Ala Pro Ala Ser Asp Asp Thr Pro Glu Phe Cys Ala Ala Leu Arg  
50 55 60  
Ser Tyr Ala Leu Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly Asp  
65 70 75 80  
Leu Ala Tyr His Ser Ala Val His Gly Ile Xaa Asp Leu Met Ser Gln  
85 90 95  
His Asn Cys Ser Lys Asp Gly Pro Thr Ser Gln Pro Arg Leu Arg Thr  
100 105 110  
Leu Pro Pro Ala Glu Thr Ala Arg Ser Ala Arg Thr Ala Pro Arg Ser  
115 120 125  
Ala Ile Thr Arg Arg Ala Phe Thr Ser Thr Arg Xaa Pro Pro Thr Thr  
130 135 140  
Arg Thr Val Ala Ser Ser Gly Thr His Thr Phe Arg Thr Phe Thr Asp  
145 150 155 160  
Arg Phe Gln Thr Cys Lys Val Gln Xaa Arg Leu Ala Ala His Arg Gln  
165 170 175  
Leu Ile Thr

<210> 1854  
<211> 357  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (140)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (325)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (329)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (335)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (338)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (339)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1854  
Met Gly Met Gly Arg Gly Ala Gly Arg Ser Ala Leu Gly Phe Trp Pro  
1 5 10 15  
Thr Leu Ala Phe Leu Leu Cys Ser Phe Pro Ala Ala Thr Ser Pro Cys  
20 25 30  
Lys Ile Leu Lys Cys Asn Ser Glu Phe Trp Ser Ala Thr Ser Gly Ser  
35 40 45  
His Ala Pro Ala Ser Asp Asp Thr Pro Glu Phe Cys Ala Ala Leu Arg  
50 55 60  
Ser Tyr Ala Leu Cys Thr Arg Arg Thr Ala Arg Thr Cys Arg Gly Asp  
65 70 75 80  
Leu Ala Tyr His Ser Ala Val His Gly Ile Glu Asp Leu Met Ser Gln  
85 90 95  
His Asn Cys Ser Lys Asp Gly Pro Thr Ser Gln Pro Arg Leu Arg Thr  
100 105 110

Leu Pro Pro Ala Gly Asp Ser Gln Glu Arg Ser Asp Ser Pro Glu Ile  
 115 120 125  
 Cys His Tyr Glu Lys Ser Phe His Lys His Ser Xaa Thr Pro Asn Tyr  
 130 135 140  
 Thr His Cys Gly Leu Phe Gly Asp Pro His Leu Arg Thr Phe Thr Asp  
 145 150 155 160  
 Arg Phe Gln Thr Cys Lys Val Gln Gly Ala Trp Pro Leu Ile Asp Asn  
 165 170 175  
 Asn Tyr Leu Asn Val Gln Val Thr Asn Thr Pro Val Leu Pro Gly Ser  
 180 185 190  
 Ala Ala Thr Ala Thr Ser Lys Leu Thr Ile Ile Phe Lys Asn Phe Gln  
 195 200 205  
 Glu Cys Val Asp Gln Lys Val Tyr Gln Ala Glu Met Asp Glu Leu Pro  
 210 215 220  
 Ala Ala Phe Val Asp Gly Ser Lys Asn Gly Gly Asp Lys His Gly Ala  
 225 230 235 240  
 Asn Ser Leu Lys Ile Thr Glu Lys Val Ser Gly Gln His Val Glu Ile  
 245 250 255  
 Gln Ala Lys Tyr Ile Gly Thr Thr Ile Val Val Arg Gln Val Gly Arg  
 260 265 270  
 Tyr Leu Thr Phe Ala Val Arg Met Pro Glu Glu Val Val Asn Ala Val  
 275 280 285  
 Glu Asp Trp Asp Ser Gln Gly Leu Tyr Leu Cys Leu Arg Gly Cys Pro  
 290 295 300  
 Leu Asn Gln Gln Ile Asp Phe Gln Ala Phe His Thr Asn Ala Glu Gly  
 305 310 315 320  
 Thr Gly Ala Arg Xaa Leu Ala Ala Xaa Ser Leu Asp Pro Gln Xaa Pro  
 325 330 335  
 Arg Xaa Xaa His Thr Arg Gln Ala Val Ala Lys Cys Lys Glu Lys Leu  
 340 345 350  
 Pro Val Glu Asp Leu  
 355

<210> 1855

<211> 434

<212> PRT

<213> Homo sapiens

<400> 1855

Met Gly Met Gly Arg Gly Ala Gly Arg Ser Ala Leu Gly Phe Trp Pro

1					5					10					15				
Thr	Leu	Ala	Phe	Leu	Leu	Cys	Ser	Phe	Pro	Ala	Ala	Thr	Ser	Pro	Cys				
			20							25				30					
Lys	Ile	Leu	Lys	Cys	Asn	Ser	Glu	Phe	Trp	Ser	Ala	Thr	Ser	Gly	Ser				
			35				40							45					
His	Ala	Pro	Ala	Ser	Asp	Asp	Thr	Pro	Glu	Phe	Cys	Ala	Ala	Leu	Arg				
			50				55							60					
Ser	Tyr	Ala	Leu	Cys	Thr	Arg	Arg	Thr	Ala	Arg	Thr	Cys	Arg	Gly	Asp				
65							70							75					
Leu	Ala	Tyr	His	Ser	Ala	Val	His	Gly	Ile	Glu	Asp	Leu	Met	Ser	Gln				
						85				90							95		
His	Asn	Cys	Ser	Lys	Asp	Gly	Pro	Thr	Ser	Gln	Pro	Arg	Leu	Arg	Thr				
						100				105							110		
Leu	Pro	Pro	Ala	Gly	Asp	Ser	Gln	Glu	Arg	Ser	Asp	Ser	Pro	Glu	Ile				
						115				120							125		
Cys	His	Tyr	Glu	Lys	Ser	Phe	His	Lys	His	Ser	Ala	Thr	Pro	Asn	Tyr				
						130				135							140		
Thr	His	Cys	Gly	Leu	Phe	Gly	Asp	Pro	His	Leu	Arg	Thr	Phe	Thr	Asp				
145							150										155		
Arg	Phe	Gln	Thr	Cys	Lys	Val	Gln	Gly	Ala	Trp	Pro	Leu	Ile	Asp	Asn				
						165										175			
Asn	Tyr	Leu	Asn	Val	Gln	Val	Thr	Asn	Thr	Pro	Val	Leu	Pro	Gly	Ser				
						180										185			
Ala	Ala	Thr	Ala	Thr	Ser	Lys	Leu	Thr	Ile	Ile	Phe	Lys	Asn	Phe	Gln				
						195				200							205		
Glu	Cys	Val	Asp	Gln	Lys	Val	Tyr	Gln	Ala	Glu	Met	Asp	Glu	Leu	Pro				
						210				215							220		
Ala	Ala	Phe	Val	Asp	Gly	Ser	Lys	Asn	Gly	Gly	Asp	Lys	His	Gly	Ala				
225							230										235		
Asn	Ser	Leu	Lys	Ile	Thr	Glu	Lys	Val	Ser	Gly	Gln	His	Val	Glu	Ile				
						245										250			
Gln	Ala	Lys	Tyr	Ile	Gly	Thr	Thr	Ile	Val	Val	Arg	Gln	Val	Gly	Arg				
						260										265			
Tyr	Leu	Thr	Phe	Ala	Val	Arg	Met	Pro	Glu	Glu	Val	Val	Asn	Ala	Val				
						275										280			
Glu	Asp	Trp	Asp	Ser	Gln	Gly	Leu	Tyr	Leu	Cys	Leu	Arg	Gly	Cys	Pro				
						290				295							300		
Leu	Asn	Gln	Gln	Ile	Asp	Phe	Gln	Ala	Phe	His	Thr	Asn	Ala	Glu	Gly				



Thr	Asp	Leu	Asp	Ile	Gly	Arg	Val	Phe	Thr	Cys	Arg	Ser	Met	Asn	Glu		
130						135					140						
Ala	Ile	Pro	Ser	Gly	Lys	Glu	Thr	Ser	Ile	Glu	Leu	Asp	Val	His	His		
145					150					155					160		
Pro	Pro	Thr	Val	Thr	Leu	Ser	Ile	Glu	Pro	Gln	Thr	Val	Gln	Glu	Gly		
				165					170					175			
Glu	Arg	Val	Val	Phe	Thr	Cys	Gln	Ala	Thr	Ala	Asn	Pro	Glu	Ile	Leu		
			180					185					190				
Gly	Tyr	Arg	Trp	Ala	Lys	Gly	Gly	Phe	Leu	Ile	Glu	Asp	Ala	His	Glu		
	195					200						205					
Ser	Arg	Tyr	Glu	Thr	Asn	Val	Asp	Tyr	Ser	Phe	Phe	Thr	Glu	Pro	Val		
	210					215					220						
Ser	Cys	Glu	Val	His	Asn	Lys	Val	Gly	Ser	Thr	Asn	Val	Ser	Thr	Leu		
225					230				235						240		
Val	Asn	Val	His	Phe	Ala	Pro	Arg	Ile	Val	Val	Asp	Pro	Lys	Pro	Thr		
				245					250					255			
Thr	Thr	Asp	Ile	Gly	Ser	Asp	Val	Thr	Leu	Thr	Cys	Val	Trp	Val	Gly		
			260					265					270				
Asn	Pro	Pro	Leu	Thr	Leu	Thr	Trp	Thr	Lys	Lys	Asp	Ser	Asn	Met	Gly		
		275					280					285					
Pro	Arg	Pro	Pro	Gly	Ser	Pro	Pro	Glu	Ala	Ala	Leu	Ser	Ala	Gln	Val		
	290					295					300						
Leu	Ser	Asn	Ser	Asn	Gln	Leu	Leu	Leu	Lys	Ser	Val	Thr	Gln	Ala	Asp		
305					310					315					320		
Ala	Gly	Thr	Tyr	Thr	Cys	Arg	Ala	Ile	Val	Pro	Arg	Ile	Gly	Val	Ala		
				325					330					335			
Glu	Arg	Glu	Val	Pro	Leu	Tyr	Val	Asn	Gly	Pro	Pro	Ile	Ile	Ser	Ser		
			340					345					350				
Glu	Ala	Val	Gln	Tyr	Ala	Val	Arg	Gly	Asp	Gly	Gly	Lys	Val	Glu	Cys		
	355						360					365					
Phe	Ile	Gly	Ser	Thr	Pro	Pro	Pro	Asp	Arg	Ile	Ala	Trp	Ala	Trp	Lys		
	370					375					380						
Glu	Asn	Phe	Leu	Glu	Val	Gly	Thr	Leu	Glu	Arg	Tyr	Thr	Val	Glu	Arg		
385					390					395					400		
Thr	Asn	Ser	Gly	Ser	Gly	Val	Leu	Ser	Thr	Leu	Thr	Ile	Asn	Asn	Val		
				405					410					415			
Met	Glu	Ala	Asp	Phe	Gln	Thr	His	Tyr	Asn	Cys	Thr	Ala	Trp	Asn	Ser		
			420					425					430				

[illegible]



<210> 1857  
<211> 81  
<212> PRT  
<213> Homo sapiens

<400> 1857  
Met Thr Ala Leu Met Ala Leu Val Met His Arg Leu Ala Leu Tyr Val  
1 5 10 15  
Cys Val Leu Ser Thr Thr Ala Ala Leu Arg Gly Arg Asp Glu Ala Leu  
20 25 30  
Gly Gly Glu Ala Ala Cys Leu Val Val Phe Trp Gly Pro His Ser His  
35 40 45  
Asp Ile Glu Arg Gln Gly Gln Glu Gly Thr Gly Leu Asp Leu Arg Leu  
50 55 60  
Ala Pro Gln Cys Ala Lys Asp Ser Val Thr Val Ser Arg Ser Cys Ser  
65 70 75 80  
Val

<210> 1858  
<211> 81  
<212> PRT  
<213> Homo sapiens

<400> 1858  
Met Thr Ala Leu Met Ala Leu Val Met His Arg Leu Ala Leu Tyr Val  
1 5 10 15  
Cys Val Leu Ser Thr Thr Ala Ala Leu Arg Gly Arg Asp Glu Ala Leu  
20 25 30  
Gly Gly Glu Ala Ala Cys Leu Val Val Phe Trp Gly Pro His Ser His  
35 40 45  
Asp Ile Glu Arg Gln Gly Gln Glu Gly Thr Gly Leu Asp Leu Arg Leu  
50 55 60  
Ala Pro Gln Cys Ala Lys Asp Ser Val Thr Val Ser Arg Ser Cys Ser  
65 70 75 80  
Val

<210> 1859  
<211> 104  
<212> PRT  
<213> Homo sapiens



<400> 1859

Met	Tyr	Trp	Gly	Ile	Phe	Phe	Ser	Ile	Leu	Asn	Phe	Leu	Ala	Phe	Phe
1				5					10					15	
Ser	Leu	Val	Leu	Ile	Ser	Val	Leu	Leu	Trp	Thr	Gly	Met	Val	Val	Phe
			20					25					30		
Arg	Ser	Leu	Asp	Pro	Gly	Ala	Glu	Leu	Val	Gly	Phe	Glu	Ser	His	Leu
			35				40					45			
Tyr	His	Cys	Cys	Val	Thr	Ser	Gly	Asn	Leu	Pro	Asn	Phe	Pro	Gly	Pro
	50					55					60				
Gln	Phe	Ser	Tyr	Ile	Glu	Asn	Gly	Asn	Asn	Lys	Ser	Ile	Cys	Phe	Ile
65					70					75					80
Gly	Leu	Leu	Arg	Glu	Phe	Ala	Asn	Ser	Ile	Tyr	Ala	Asn	Leu	Leu	Asp
				85					90					95	
Gln	Cys	Leu	Ala	His	Asn	Ser	Gln								
			100												

<210> 1860

<211> 104

<212> PRT

<213> Homo sapiens

<400> 1860

Met	Tyr	Trp	Gly	Ile	Phe	Phe	Ser	Ile	Leu	Asn	Phe	Leu	Ala	Phe	Phe
1				5					10					15	
Ser	Leu	Val	Leu	Ile	Ser	Val	Leu	Leu	Trp	Thr	Gly	Met	Val	Val	Phe
			20					25					30		
Arg	Ser	Leu	Asp	Pro	Gly	Ala	Glu	Leu	Val	Gly	Phe	Glu	Ser	His	Leu
			35				40					45			
Tyr	His	Cys	Cys	Val	Thr	Ser	Gly	Asn	Leu	Pro	Asn	Phe	Pro	Gly	Pro
	50					55					60				
Gln	Phe	Ser	Tyr	Ile	Glu	Asn	Gly	Asn	Asn	Lys	Ser	Ile	Cys	Phe	Ile
65					70					75					80
Gly	Leu	Leu	Arg	Glu	Phe	Ala	Asn	Ser	Ile	Tyr	Ala	Asn	Leu	Leu	Asp
				85					90					95	
Gln	Cys	Leu	Ala	His	Asn	Ser	Gln								
			100												

<210> 1861

<211> 75

<212> PRT

<213> Homo sapiens

<220>  
<221> SITE  
<222> (23)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1861  
Met Ala Ser Tyr Lys Thr Leu Lys Met Leu Phe Ser Cys Leu Leu Thr  
1 5 10 15  
Cys Ser Val Ser Asn Glu Xaa Tyr Ala Val Ile Phe Asn Phe Phe Pro  
20 25 30  
Leu Tyr Ile Xaa Phe Leu Ser Asp Cys Phe Lys Xaa Phe Ser Leu Ser  
35 40 45  
Leu Val Leu Ser Asn Leu Ile Ile Ile Tyr Leu Gly Val Ile Phe Phe  
50 55 60  
Ile Phe Phe Val Leu Asp Ile His Arg Ser Ser  
65 70 75

<210> 1862  
<211> 72  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (10)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (11)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1862  
Xaa Tyr Thr Phe Val Asn Ser Arg Ser Xaa Xaa Leu Ile Asp Phe Leu  
1 5 10 15

Cys Val Ile Met Gly His Leu Phe Leu Val His Phe Met Pro Asp Ile  
                   20                  25                  30  
 Leu Lys Phe Lys Thr Lys Tyr Cys Glu Phe Tyr Leu Val Leu Cys Trp  
                   35                  40                  45  
 Ile Phe Phe Val Phe Leu Ser Thr Ile Met Ser Phe Leu Leu Gly Cys  
                   50                  55                  60  
 Ser Tyr Ser His Trp Lys Gln Phe  
                   65                  70

<210> 1863  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 1863  
 Met Ala Ser Tyr Lys Thr Leu Lys Met Leu Phe Ser Cys Leu Leu Thr  
           1                  5                  10                  15  
 Cys Ser Val Ser Asn Glu Gln Tyr Ala Val Ile Phe Asn Phe Phe Pro  
                   20                  25                  30  
 Leu Tyr Ile Cys Phe Leu Ser Asp Cys Phe Lys Cys Phe Ser Leu Ser  
                   35                  40                  45  
 Leu Val Leu Ser Asn Leu Ile Ile Ile Tyr Leu Gly Val Ile Phe Phe  
                   50                  55                  60  
 Ile Phe Phe Val Leu Asp Ile His Arg Ser Ser  
                   65                  70                  75

<210> 1864  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1864  
 Met Arg Leu Cys Gln Arg Pro Gly Leu Val Leu Ala Leu Pro Pro Gln  
           1                  5                  10                  15  
 Leu Ser Phe Ser Thr Ala Arg Gly Gly Asp Ser Arg Met Leu Gly Leu  
                   20                  25                  30  
 Pro Leu Gly Arg Xaa Thr Ser Gly Lys Val Gln Gly Asp Ser Thr Thr  
                   35                  40                  45

Val Lys Leu Arg Phe Gly Leu Gln Leu Gly Val Leu Gly Gln Arg  
50 55 60

<210> 1865  
<211> 157  
<212> PRT  
<213> Homo sapiens

<400> 1865

Gly Gln Arg Gly Arg Pro Ala Ala Thr Ser His Arg Ile Leu Ser Ser  
1 5 10 15

His Ser Leu Ala Ser Gly Cys Pro Val Phe Arg Gly Gly Glu Gly Thr  
20 25 30

Gly Ala Arg Ser Thr Pro Leu Ala Leu Leu Leu Asp Pro Lys Ala Arg  
35 40 45

Pro Asp Pro Phe Ile Pro Trp Gly Ala Pro Ala Ser Ala Ile Gly Met  
50 55 60

Arg Ser Leu Lys Ser Leu His Lys Gln Val Arg Asp Pro Pro Thr Cys  
65 70 75 80

Arg Ser Trp Ala Thr Pro Arg Ala Ile Pro Arg Gly Cys Gly Arg Thr  
85 90 95

Gln Pro Pro Thr Asp Arg Arg Pro Glu Ser Ser Glu Gly Ala Ile Pro  
100 105 110

Ile Pro Thr Ser Gly Glu Ala Arg Thr Ala Ile Val Ala Ser Gly Lys  
115 120 125

Thr Gln Leu Glu Pro Asn Gly Pro Cys Pro His Cys Asn Cys Ala Glu  
130 135 140

Asn Val Ser Gln Met Thr Gln Ile Gly Ser Tyr Phe Phe  
145 150 155

<210> 1866  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 1866

Met Arg Leu Cys Gln Arg Pro Gly Leu Val Leu Ala Leu Pro Pro Gln  
1 5 10 15

Leu Ser Phe Ser Thr Ala Arg Gly Gly Asp Ser Arg Met Leu Gly Leu  
20 25 30

Pro Leu Gly Arg Gly Thr Leu Glu Gly Gln Gly Asp Pro Gln Leu

35

40

45

<210> 1867  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 1867  
 Met Leu Ser Trp Leu Leu His Phe Tyr Phe Leu Thr Leu Ile Leu Met  
   1                  5                  10                  15  
 Asn Lys Ala Ser Leu Met Asn Gln Leu Lys Ser Cys Lys Asn Val Phe  
                   20                  25                  30  
 Lys Met Cys Ala Phe Tyr Tyr Leu Ser Val Tyr Val Leu Gly Glu Met  
           35                  40                  45  
 Gly Ser Asn Arg Ser Leu Cys Pro Asp Val Gln Asp Ala Cys Tyr His  
       50                  55                  60  
 Thr His Lys Cys Leu Ile Leu Val Phe Met Trp Pro Leu Ser Pro Val  
   65                  70                  75                  80  
 Asp Phe Pro Leu Met Cys Phe Leu Leu  
                   85

<210> 1868  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 1868  
 Met Leu Ser Trp Leu Leu His Phe Tyr Phe Leu Thr Leu Ile Leu Met  
   1                  5                  10                  15  
 Asn Lys Ala Ser Leu Met Asn Gln Leu Lys Ser Cys Lys Asn Val Phe  
                   20                  25                  30  
 Lys Met Cys Ala Phe Tyr Tyr Leu Ser Val Tyr Val Leu Gly Glu Met  
           35                  40                  45  
 Gly Ser Asn Arg Ser Leu Cys Pro Asp Val Gln Asp Ala Cys Tyr His  
       50                  55                  60  
 Thr His Lys Cys Leu Ile Leu Val Phe Met Trp Pro Leu Ser Pro Val  
   65                  70                  75                  80  
 Asp Phe Pro Leu Met Cys Phe Leu Leu  
                   85

<210> 1869

<211> 93  
<212> PRT  
<213> Homo sapiens

<400> 1869

Met	Leu	Ile	Ser	Lys	Gly	Val	Gln	Leu	Leu	Cys	Lys	Ala	Val	Tyr	Pro
1				5				10						15	
Ser	His	Leu	Trp	Ser	Phe	Leu	Val	Leu	Leu	Phe	Thr	Val	Met	Lys	Thr
			20					25					30		
Glu	Pro	Val	Ser	Ala	Leu	Gly	Cys	Gly	Asp	Gln	Cys	His	Gln	Ser	Leu
		35					40					45			
Leu	Leu	Arg	Asp	Tyr	Pro	Leu	Ala	Asn	Ile	Pro	Ile	Cys	Gly	Trp	Ala
	50					55					60				
Trp	Arg	Val	Tyr	Leu	Phe	Leu	Gly	Cys	Val	Cys	Ile	Cys	Val	Cys	Val
65					70				75					80	
Cys	Val	Cys	Val	Phe	Asn	Ser	Ser	Val	Cys	Lys	Leu	Phe			
				85					90						

<210> 1870  
<211> 304  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (231)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1870

Met	Ser	Ser	Ser	Glu	Met	Trp	Thr	Val	Leu	Trp	His	Arg	Phe	Ser	Met
1				5					10					15	
Val	Leu	Arg	Leu	Pro	Glu	Glu	Ala	Ser	Ala	Gln	Glu	Gly	Glu	Leu	Ser
			20					25					30		
Leu	Ser	Ser	Pro	Pro	Ser	Pro	Glu	Pro	Asp	Trp	Thr	Leu	Ile	Ser	Pro
			35				40					45			
Gln	Gly	Ile	Phe	Leu	Ser	His	Gly	Ser	Ile	Leu	Met	Ser	Ile	Leu	Lys
	50					55					60				

His	Leu	Leu	Cys	Pro	Ser	Phe	Leu	Asn	Gln	Leu	Arg	Gln	Ala	Pro	His	65	70	75	80
Gly	Ser	Glu	Phe	Leu	Pro	Val	Val	Val	Leu	Ser	Val	Cys	Gln	Leu	Leu	85	90	95	
Cys	Xaa	Pro	Phe	Ala	Leu	Asp	Met	Asp	Ala	Asp	Leu	Leu	Ile	Asp	Val	100	105	110	
Leu	Ala	Asp	Leu	Arg	Asp	Ser	Glu	Val	Ala	Ala	His	Leu	Leu	Gln	Val	115	120	125	
Cys	Cys	Tyr	His	Leu	Pro	Leu	Met	Gln	Val	Glu	Leu	Pro	Ile	Ser	Leu	130	135	140	
Leu	Thr	Arg	Leu	Ala	Leu	Met	Asp	Pro	Thr	Ser	Leu	Asn	Gln	Phe	Val	145	150	155	160
Asn	Thr	Val	Ser	Ala	Xaa	Pro	Arg	Thr	Ile	Val	Ser	Phe	Leu	Ser	Val	165	170	175	
Ala	Leu	Leu	Ser	Asp	Gln	Pro	Leu	Leu	Thr	Ser	Asp	Leu	Leu	Ser	Leu	180	185	190	
Leu	Ala	His	Thr	Ala	Arg	Val	Leu	Ser	Pro	Ser	His	Leu	Ser	Phe	Ile	195	200	205	
Gln	Glu	Leu	Leu	Ala	Gly	Ser	Asp	Glu	Ser	Tyr	Arg	Pro	Leu	Arg	Ser	210	215	220	
Ser	Trp	Ala	Thr	Gln	Arg	Xaa	Leu	Cys	Gly	His	Thr	Leu	Ile	Gly	Ser	225	230	235	240
Trp	Asp	Thr	Cys	Ser	Asn	Thr	Ala	Trp	Pro	Cys	Val	Gly	His	Cys	Arg	245	250	255	
Ala	Ser	Leu	Asp	Cys	Ser	Ala	Phe	Cys	Cys	Leu	Gly	Leu	Glu	Thr	Arg	260	265	270	
Ile	Leu	Leu	Cys	Gly	Ala	Val	Pro	Ala	Leu	Leu	Trp	Ala	Met	Gln	Pro	275	280	285	
Thr	Arg	Leu	Val	Leu	Trp	Asp	Leu	Pro	Trp	Gln	Leu	Gln	Cys	Pro	Val	290	295	300	

<210> 1871  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>

<221> SITE  
 <222> (54)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (89)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1871  
 Met Ala Val Met Cys Val Ala Gly Leu Phe Phe Ile Pro Val Ala Gly  
     1                    5                    10                    15  
 Leu Thr Gly Phe His Val Val Leu Val Ala Arg Gly Arg Thr Thr Asn  
                     20                    25                    30  
 Glu Gln Val Thr Gly Lys Phe Arg Gly Gly Val Asn Pro Phe Thr Asn  
                     35                    40                    45  
 Gly Cys Cys Asn Asn Xaa Ser Arg Val Leu Cys Ser Ser Pro Ala Pro  
                     50                    55                    60  
 Arg Tyr Leu Gly Arg Pro Xaa Lys Glu Lys Thr Ile Val Ile Arg Pro  
     65                    70                    75                    80  
 Pro Phe Leu Arg Pro Arg Ser Phe Xaa Trp Ala  
                     85                    90

<210> 1872  
 <211> 210  
 <212> PRT  
 <213> Homo sapiens

<400> 1872  
 Met Ala Val Met Cys Val Ala Gly Leu Phe Phe Ile Pro Val Ala Gly  
     1                    5                    10                    15  
 Leu Thr Gly Phe His Val Val Leu Val Ala Arg Gly Arg Thr Thr Asn  
                     20                    25                    30  
 Glu Gln Val Thr Gly Lys Phe Arg Gly Gly Val Asn Pro Phe Thr Asn  
                     35                    40                    45  
 Gly Cys Cys Asn Asn Val Ser Arg Val Leu Cys Ser Ser Pro Ala Pro  
                     50                    55                    60  
 Arg Tyr Leu Gly Arg Pro Lys Lys Glu Lys Thr Ile Val Ile Arg Pro  
     65                    70                    75                    80  
 Pro Phe Leu Arg Pro Glu Val Ser Asp Gly Gln Ile Thr Val Lys Ile



				85					90					95			
Met	Asp	Asn	Gly	Ile	Gln	Gly	Glu	Leu	Arg	Arg	Thr	Lys	Ser	Lys	Gly		
			100					105					110				
Ser	Leu	Glu	Ile	Thr	Glu	Ser	Gln	Ser	Ala	Asp	Ala	Glu	Pro	Pro	Pro		
		115					120					125					
Pro	Pro	Lys	Pro	Asp	Leu	Ser	Arg	Tyr	Thr	Gly	Leu	Arg	Thr	His	Leu		
		130				135					140						
Gly	Leu	Ala	Thr	Asn	Glu	Asp	Ser	Ser	Leu	Leu	Ala	Lys	Asp	Ser	Pro		
145					150					155					160		
Pro	Thr	Pro	Thr	Met	Tyr	Lys	Tyr	Arg	Pro	Gly	Tyr	Ser	Ser	Ser	Ser		
				165				170						175			
Thr	Ser	Ala	Ala	Met	Pro	His	Ser	Ser	Ser	Ala	Lys	Val	Leu	Ser	Thr		
			180					185					190				
Leu	Arg	Gly	Gly	Val	Ile	Thr	Cys	Gln	Leu	Ala	Arg	His	Ser	Gly	Ser		
		195					200					205					
Phe	Leu																
	210																

<210> 1873  
 <211> 193  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1873																	
Met	Gly	Pro	Leu	Ser	Pro	Ala	Arg	Thr	Leu	Arg	Leu	Trp	Gly	Pro	Arg		
1				5					10					15			
Ser	Leu	Gly	Val	Ala	Leu	Gly	Val	Phe	Met	Thr	Ile	Gly	Phe	Ala	Leu		
			20					25					30				
Gln	Leu	Leu	Gly	Gly	Pro	Phe	Gln	Arg	Arg	Leu	Pro	Gly	Leu	Gln	Leu		
		35					40					45					
Arg	Gln	Pro	Ser	Xaa	Pro	Ser	Leu	Arg	Pro	Ala	Leu	Pro	Ser	Cys	Pro		
		50				55					60						
Pro	Arg	Gln	Arg	Leu	Val	Phe	Leu	Lys	Thr	His	Lys	Ser	Gly	Ser	Ser		
65					70					75					80		
Ser	Val	Leu	Ser	Leu	Leu	His	Arg	Tyr	Gly	Asp	Gln	His	Gly	Leu	Arg		
				85					90					95			

Phe	Ala	Leu	Pro	Ala	Arg	Tyr	Gln	Phe	Gly	Tyr	Pro	Lys	Leu	Phe	Gln
			100					105					110		
Ala	Ser	Arg	Val	Lys	Gly	Tyr	Arg	Pro	Gln	Gly	Gly	Gly	Thr	Gln	Leu
		115					120					125			
Pro	Phe	His	Ile	Leu	Cys	His	His	Met	Arg	Phe	Asn	Leu	Lys	Glu	Val
	130					135					140				
Leu	Gln	Val	Met	Pro	Ser	Asp	Ser	Phe	Phe	Phe	Ser	Ile	Val	Arg	Asp
145					150				155						160
Pro	Ala	Ala	Leu	Ala	Arg	Ser	Ala	Phe	Ser	Tyr	Tyr	Lys	Ser	Thr	Ser
			165					170						175	
Ser	Ala	Phe	Arg	Lys	Ser	Pro	Ser	Leu	Ala	Ala	Phe	Leu	Ala	Asn	Pro
		180						185					190		

Arg

<210> 1874  
 <211> 461  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (28)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (168)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (169)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (171)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (178)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (442)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1874

Met	Thr	Ile	Gly	Phe	Ala	Leu	Gln	Leu	Leu	Gly	Gly	Pro	Phe	Gln	Arg
1				5				10						15	
Arg	Leu	Pro	Gly	Leu	Gln	Leu	Arg	Gln	Pro	Ser	Xaa	Pro	Ser	Leu	Arg
			20					25					30		
Pro	Ala	Leu	Pro	Ser	Cys	Pro	Pro	Arg	Gln	Arg	Leu	Val	Phe	Leu	Lys
		35					40					45			
Thr	His	Lys	Ser	Gly	Ser	Ser	Ser	Val	Leu	Ser	Leu	Leu	His	Arg	Tyr
	50					55					60				
Gly	Asp	Gln	His	Gly	Leu	Arg	Phe	Ala	Leu	Pro	Ala	Arg	Tyr	Gln	Phe
65					70					75					80
Gly	Tyr	Pro	Lys	Leu	Phe	Gln	Ala	Ser	Arg	Val	Lys	Gly	Tyr	Arg	Pro
				85					90					95	
Gln	Gly	Gly	Gly	Thr	Gln	Leu	Pro	Phe	His	Ile	Leu	Cys	His	His	Met
			100					105					110		
Arg	Phe	Asn	Leu	Lys	Glu	Val	Leu	Gln	Val	Met	Pro	Ser	Asp	Ser	Phe
		115					120					125			
Phe	Phe	Ser	Ile	Val	Arg	Asp	Pro	Ala	Ala	Leu	Ala	Arg	Ser	Ala	Phe
	130					135					140				
Ser	Tyr	Tyr	Lys	Ser	Thr	Ser	Ser	Ala	Phe	Arg	Lys	Ser	Pro	Ser	Leu
145					150					155					160
Ala	Ala	Phe	Leu	Ala	Asn	Pro	Xaa	Xaa	Phe	Xaa	Arg	Pro	Gly	Ala	Arg
				165					170					175	
Gly	Xaa	His	Tyr	Ala	Arg	Asn	Leu	Leu	Trp	Phe	Asp	Phe	Gly	Leu	Pro
			180					185					190		
Phe	Pro	Pro	Glu	Lys	Arg	Ala	Lys	Arg	Gly	Asn	Ile	His	Pro	Pro	Arg
		195					200					205			
Asp	Pro	Asn	Pro	Pro	Gln	Leu	Gln	Val	Leu	Pro	Ser	Gly	Ala	Gly	Pro
	210					215					220				
Arg	Ala	Gln	Thr	Leu	Asn	Pro	Asn	Ala	Leu	Ile	His	Pro	Val	Ser	Thr
225					230					235					240
Val	Thr	Asp	His	Arg	Ser	Gln	Ile	Ser	Ser	Pro	Ala	Ser	Phe	Asp	Leu
				245					250					255	
Gly	Ser	Ser	Ser	Phe	Ile	Gln	Trp	Gly	Leu	Ala	Trp	Leu	Asp	Ser	Val
			260					265					270		
Phe	Asp	Leu	Val	Met	Val	Ala	Glu	Tyr	Phe	Asp	Glu	Ser	Leu	Val	Leu
	275						280					285			
Leu	Ala	Asp	Ala	Leu	Cys	Trp	Gly	Leu	Asp	Asp	Val	Val	Gly	Phe	Met

290	295	300
His Asn Ala Gln Ala Gly 305 310	His Lys Gln Gly 315	Leu Ser Thr Val Ser Asn 320
Ser Gly Leu Thr Ala 325	Glu Asp Arg Gln Leu Thr 330	Ala Arg Ala Arg Ala 335
Trp Asn Asn Leu Asp Trp 340	Ala Leu Tyr Val 345	His Phe Asn Arg Ser Leu 350
Trp Ala Arg Ile Glu Lys Tyr 355	Gly Gln Gly Arg Leu 360	Gln Thr Ala Val 365
Ala Glu Leu Arg Ala Arg 370	Arg Glu Ala Leu Ala 375	Lys His Cys Leu Val 380
Gly Gly Glu Ala Ser Asp 385 390	Pro Lys Tyr Ile Thr 395	Asp Arg Arg Phe Arg 400
Pro Phe Gln Phe Gly Ser 405	Ala Lys Val Leu Gly Tyr 410	Ile Leu Arg Ser 415
Gly Leu Ser Pro Gln Asp 420	Gln Glu Glu Cys Glu Arg 425	Leu Ala Thr Pro 430
Glu Leu Gln Tyr Lys Asp 435	Lys Leu Asp Xaa Lys 440	Gln Phe Pro Pro Thr 445
Val Ser Leu Pro Leu Lys 450	Thr Ser Arg Pro Leu 455	Ser Pro 460

<210> 1875  
 <211> 191  
 <212> PRT  
 <213> Homo sapiens

<400> 1875

Met Gly Pro Leu Ser Pro Ala Arg Thr Leu Arg Leu Trp Gly Pro Arg 1 5 10 15
Ser Leu Gly Val Ala Leu Gly Val Phe Met Thr Ile Gly Phe Ala Leu 20 25 30
Gln Leu Leu Gly Gly Pro Phe Gln Arg Arg Leu Pro Gly Leu Gln Leu 35 40 45
Arg Gln Pro Ser Ala Pro Ser Leu Arg Pro Ala Leu Pro Ser Cys Pro 50 55 60
Pro Arg Gln Arg Leu Val Phe Leu Lys Thr His Lys Ser Gly Ser Ser 65 70 75 80
Ser Val Leu Ser Leu Leu His Arg Tyr Gly Asp Gln His Gly Leu Arg 85 90 95

Phe	Ala	Leu	Pro	Ala	Arg	Tyr	Gln	Phe	Gly	Tyr	Pro	Lys	Leu	Phe	Gln
			100					105					110		
Ala	Ser	Arg	Val	Lys	Gly	Tyr	Arg	Pro	Gln	Gly	Gly	Gly	Thr	Gln	Leu
		115					120					125			
Pro	Phe	His	Ile	Leu	Cys	His	His	Met	Arg	Phe	Asn	Leu	Lys	Glu	Val
	130					135					140				
Leu	Gln	Val	Met	Pro	Ser	Asp	Ser	Phe	Phe	Phe	Ser	Ile	Val	Arg	Asp
145					150					155					160
Pro	Ala	Gly	Leu	Ala	Arg	Ser	Ala	Phe	Ser	Tyr	Tyr	Lys	Ser	Thr	Ser
				165					170					175	
Ser	Thr	Phe	Arg	Lys	Ser	Pro	Ser	Leu	Ala	Ala	Phe	Leu	Ala	Asn	
			180					185					190		

<210> 1876  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

Met	Ala	Pro	Ala	Ile	Val	Thr	Leu	Gly	Leu	Leu	Leu	Pro	Leu	Ala	Pro
1				5					10					15	
Ala	Asp	Leu	Cys	Leu	Pro	Ala	Leu	Gly	Ser	Ser	Arg	Leu	Pro	Arg	Gly
			20					25					30		
Pro	Pro	Gln	Leu	Pro	Ser	Ile	Pro	Val	Ser	Gln	Pro	Leu	Pro	Arg	Gly
		35					40					45			
Phe	Leu	Arg	Glu	His	Pro	Gln	Pro	His	Lys	Leu	Gln	Pro	Ile	Pro	Pro
	50					55					60				
Xaa	Ser	Gln	Lys	Ala	Leu	Phe	Leu	Glu	Pro	Arg	Arg	Arg	Leu	Trp	Pro
65					70					75					80
Pro	Ser	Pro													

<210> 1877  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

<400> 1877

Met	Ser	Ile	Pro	Met	Val	Ser	Val	Leu	Leu	Cys	Gln	Ala	Pro	Leu	Leu
1				5				10						15	
Ile	Gln	Val	Ala	Leu	Pro	Arg	Thr	Val	Ala	Ile	Arg	Lys	Lys	Arg	Leu
			20					25					30		
Cys	Leu	Val	Asp	Ser	Ile	Leu	Gln	Thr	Trp	His	Leu	Phe	Asn	Phe	Phe
		35					40					45			
Leu	Val	Gly	Phe	Ile	Phe	Gln	Ser	Ile	Phe	Arg	Phe	Thr	Ala	Lys	Leu
	50					55					60				
Ser	Glu	Ser	Thr	Glu	Ile	Ser	His	Leu	Phe	Phe	Ala	Pro	Thr	Gln	Ala
65					70				75						80
Lys	Pro	His	Leu	Leu	Pro	Ile	Ser	Pro	Thr	Arg	Glu	Val	His	Leu	Leu
				85					90					95	

<210> 1878

<211> 86

<212> PRT

<213> Homo sapiens

<400> 1878

Met	Ser	Phe	Arg	Ser	Glu	Leu	Ala	Met	Trp	Phe	Gln	Ala	Ala	Leu	Val
1				5				10						15	
Ser	Ser	Leu	Val	Leu	Pro	Thr	Pro	Pro	Gly	Ser	Gly	Gly	Thr	Ser	Arg
			20					25					30		
Arg	Lys	Lys	Trp	Ile	Lys	Ser	Trp	Arg	Asp	Phe	Lys	Gln	Tyr	Leu	Thr
		35					40					45			
His	Ser	Ser	Arg	His	Asp	Ser	His	Gln	Leu	Arg	Ser	Ser	Asn	Ala	Phe
	50					55					60				
Leu	Phe	Asp	Ala	Gln	Glu	Gly	Pro	Ser	Ala	Val	Asp	Ile	Ala	Lys	Asp
65					70				75						80
Glu	Ile	Gln	Arg	Gln	Arg										
				85											

<210> 1879

<211> 130

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1879

Met Leu Gln Thr Thr Leu Pro Ser Ser Gln Thr Val Ser Leu Cys Leu  
1 5 10 15

Trp Val Gly Ala Ser Gln Pro Pro Pro Ser Phe Leu Cys Cys Gln Leu  
20 25 30

Gln Val Phe Leu Cys Leu Leu His Thr Thr Arg Arg Cys Pro Ser Ala  
35 40 45

Leu Pro Ala Leu Val Arg Val Val Pro Val Ser His Cys Gln Thr Ser  
50 55 60

Trp Leu Xaa Cys Gly Asp Leu Phe Leu Cys Leu Arg Ser Phe Leu Arg  
65 70 75 80

Ser Val His Ser Ser Gly Val Ser Pro Cys Leu Glu Gln Ile Ala Ser  
85 90 95

Pro Phe Ser Thr Cys Leu Leu Lys Leu Trp Ser Thr Cys Asp Cys Lys  
100 105 110

Phe Ser Ala Ala Thr Pro Glu Pro Ser Ser Ser His Ser Phe Thr Phe  
115 120 125

Met Asp  
130

<210> 1880

<211> 96

<212> PRT

<213> Homo sapiens

<400> 1880

Met Leu Met Val Arg Leu Phe Asn Ser Phe Pro His Ala Leu Leu Ile  
1 5 10 15

Leu Phe Leu Trp Gly Glu Gln Ser Pro Leu Thr Lys Pro Cys Pro Thr  
20 25 30

His Trp Ala Pro Val Trp Met Val Pro Gly Pro Gln Val Leu Trp Gly  
35 40 45

Thr His Trp Gly Leu Pro Gly Asn His Phe Cys Arg Ile Arg Ser His  
50 55 60

Thr Arg Arg Ala Gln Cys Pro Arg Glu Gly Pro Phe Pro Thr Thr Leu  
65 70 75 80

Pro His Trp Gly Trp Val Thr Gly Thr Tyr Arg Gly Trp Cys Cys Leu  
85 90 95

<210> 1881  
<211> 122  
<212> PRT  
<213> Homo sapiens

<400> 1881  
Met Leu Met Val Arg Leu Phe Asn Ser Phe Pro His Ala Leu Leu Ile  
1 5 10 15  
Leu Phe Leu Trp Gly Glu Gln Ser Pro Leu Thr Lys Pro Cys Pro Thr  
20 25 30  
His Trp Ala Pro Val Trp Met Val Pro Gly Pro Gln Val Leu Trp Gly  
35 40 45  
Thr His Trp Gly Leu Pro Gly Asn His Phe Cys Arg Ile Arg Ser His  
50 55 60  
Thr Arg Arg Ala Gln Cys Pro Arg Glu Gly Pro Phe Pro Thr Thr Leu  
65 70 75 80  
Pro His Trp Gly Trp Val Thr Gly Thr Tyr Arg Gly Trp Cys Cys Leu  
85 90 95  
Ala Ser Pro Ala Cys Gly Gly Ser Trp Val Leu Leu Pro Phe Gly Phe  
100 105 110  
Val Phe Tyr Leu Ser Gly Trp Ala Ser Phe  
115 120

<210> 1882  
<211> 122  
<212> PRT  
<213> Homo sapiens

<400> 1882  
Met Leu Met Val Arg Leu Phe Asn Ser Phe Pro His Ala Leu Leu Ile  
1 5 10 15  
Leu Phe Leu Trp Gly Glu Gln Ser Pro Leu Thr Lys Pro Cys Pro Thr  
20 25 30  
His Trp Ala Pro Val Trp Met Val Pro Gly Pro Gln Val Leu Trp Gly  
35 40 45  
Thr His Trp Gly Leu Pro Gly Asn His Phe Cys Arg Ile Arg Ser His  
50 55 60  
Thr Arg Arg Ala Gln Cys Pro Arg Glu Gly Pro Phe Pro Thr Thr Leu  
65 70 75 80



Pro His Trp Gly Trp Val Thr Gly Thr Tyr Arg Gly Trp Cys Cys Leu  
85 90 95

Ala Ser Pro Ala Cys Gly Gly Ser Trp Val Leu Leu Pro Phe Gly Phe  
100 105 110

Val Phe Tyr Leu Ser Gly Trp Ala Ser Phe  
115 120

<210> 1883

<211> 65

<212> PRT

<213> Homo sapiens

<400> 1883

Met Pro Arg Ser Ser Trp Arg Pro Ala Pro Ser Arg Pro Trp Met Pro  
1 5 10 15

Trp Ser Cys Ala Ser Ser Trp Ser Thr Ser Gly Leu Trp Thr Leu Leu  
20 25 30

Cys Thr Arg Ala Ala Cys Thr Ser Ser Gln Arg Pro Thr Thr Thr Cys  
35 40 45

Trp Asp Gln Pro Arg Arg Leu Thr Leu Leu Cys Ser Gly Ala Cys Ser  
50 55 60

Arg  
65

<210> 1884

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1884

Ser Gln Leu Leu Gly Arg Leu Arg Gln Glu Asn Arg Leu Xaa Pro Gly  
1 5 10 15

Gly Gly Gly Trp Ser Glu Arg Arg Ser Cys His Xaa Thr Pro Ala Trp  
20 25 30

Val Thr Glu Arg Gln Thr Val Ser Lys Lys Lys Lys Lys Lys Lys Asn  
35 40 45

Val Arg Lys Glu Val Glu Ser Tyr Phe His Leu Tyr Phe Ser His Cys  
50 55 60

Leu Ala  
65

<210> 1885  
<211> 242  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (172)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (197)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (198)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (205)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (214)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (228)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (233)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (236)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1885

Met	His	Arg	Leu	Ala	Pro	His	Cys	Ser	Phe	Ala	Arg	Trp	Leu	Leu	Cys
1				5					10					15	
Asn	Gly	Ser	Leu	Phe	Arg	Tyr	Lys	His	Pro	Ser	Glu	Glu	Glu	Leu	Arg
			20				25						30		
Ala	Leu	Ala	Gly	Lys	Pro	Arg	Pro	Arg	Gly	Arg	Lys	Glu	Arg	Trp	Ala
		35					40					45			
Asn	Gly	Leu	Ser	Glu	Glu	Lys	Pro	Leu	Ser	Val	Pro	Arg	Asp	Ala	Pro
	50					55					60				
Phe	Gln	Leu	Glu	Thr	Cys	Pro	Leu	Thr	Thr	Val	Asp	Ala	Leu	Val	Leu
65					70					75					80
Arg	Phe	Phe	Leu	Glu	Tyr	Gln	Trp	Phe	Val	Asp	Phe	Ala	Val	Tyr	Ser
			85						90					95	
Gly	Gly	Val	Tyr	Leu	Phe	Thr	Glu	Ala	Tyr	Tyr	Tyr	Met	Leu	Gly	Pro
			100					105					110		
Ala	Lys	Glu	Thr	Asn	Ile	Ala	Val	Phe	Trp	Cys	Leu	Leu	Thr	Val	Thr
		115					120					125			
Phe	Ser	Ile	Lys	Met	Phe	Leu	Thr	Val	Thr	Arg	Leu	Tyr	Phe	Ser	Ala
	130					135					140				
Glu	Glu	Gly	Gly	Glu	Arg	Ser	Val	Cys	Leu	Thr	Phe	Ala	Phe	Leu	Phe
145					150					155					160
Leu	Leu	Leu	Ala	Met	Leu	Val	Gln	Val	Val	Arg	Xaa	Glu	Thr	Leu	Glu
				165					170					175	
Leu	Gly	Leu	Asp	Leu	Ala	Gly	Ser	Met	Thr	Gln	Asn	Leu	Glu	Pro	Leu
			180					185					190		
Leu	Lys	Lys	Gln	Xaa	Xaa	Asp	Trp	Ala	Leu	Pro	Val	Xaa	Lys	Leu	Leu
		195					200					205			
Ser	Arg	Asp	Cys	Met	Xaa	Leu	Gly	Trp	Cys	Phe	Tyr	Phe	Ser	Trp	Val
	210					215					220				
Ala	Thr	Arg	Xaa	Cys	Ile	Glu	Lys	Xaa	Tyr	Leu	Xaa	Lys	Ser	Val	Cys
225					230					235					240

Thr Gly

<210> 1886  
 <211> 479  
 <212> PRT  
 <213> Homo sapiens

<400> 1886  
 Met Ala Val Leu Gly Val Gln Leu Val Val Thr Leu Leu Thr Ala Thr

1	5	10	15
Leu Met His Arg	Leu Ala Pro His	Cys Ser Phe Ala Arg	Trp Leu Leu
20	25	30	
Cys Asn Gly Ser	Leu Phe Arg Tyr	Lys His Pro Ser	Glu Glu Glu Leu
35	40	45	
Arg Ala Leu Ala	Gly Lys Pro Arg	Pro Arg Gly Arg	Lys Glu Arg Trp
50	55	60	
Ala Asn Gly Leu	Ser Glu Glu Lys	Pro Leu Ser Val	Pro Arg Asp Ala
65	70	75	80
Pro Phe Gln Leu	Glu Thr Cys Pro	Leu Thr Thr Val	Asp Ala Leu Val
85	90	95	
Leu Arg Phe Phe	Leu Glu Tyr Gln	Trp Phe Val Asp	Phe Ala Val Tyr
100	105	110	
Ser Gly Gly Val	Tyr Leu Phe Thr	Glu Ala Tyr Tyr	Tyr Met Leu Gly
115	120	125	
Pro Ala Lys Glu	Thr Asn Ile Ala	Val Phe Trp Cys	Leu Leu Thr Val
130	135	140	
Thr Phe Ser Ile	Lys Met Phe Leu	Thr Val Thr Arg	Leu Tyr Phe Ser
145	150	155	160
Ala Glu Glu Gly	Gly Glu Arg Ser	Val Cys Leu Thr	Phe Ala Phe Leu
165	170	175	
Phe Leu Leu Leu	Ala Met Leu Val	Gln Val Val Arg	Glu Glu Thr Leu
180	185	190	
Glu Leu Gly Leu	Glu Pro Gly Leu	Ala Ser Met Thr	Gln Asn Leu Glu
195	200	205	
Pro Leu Leu Lys	Lys Gln Gly Trp	Asp Trp Ala Leu	Pro Val Ala Lys
210	215	220	
Leu Ala Ile Arg	Val Gly Leu Ala	Val Val Gly Ser	Val Leu Gly Ala
225	230	235	240
Phe Leu Thr Phe	Pro Gly Leu Arg	Leu Ala Gln Thr	His Arg Asp Ala
245	250	255	
Leu Thr Met Ser	Glu Asp Arg Pro	Met Leu Gln Phe	Leu Leu His Thr
260	265	270	
Ser Phe Leu Ser	Pro Leu Phe Ile	Leu Trp Leu Trp	Thr Lys Pro Ile
275	280	285	
Ala Arg Asp Phe	Leu His Gln Pro	Pro Phe Gly Glu	Thr Arg Phe Ser
290	295	300	
Leu Leu Ser Asp	Ser Ala Phe Asp	Ser Gly Arg Leu	Trp Leu Leu Val

305		310		315		320									
Val	Leu	Cys	Leu	Leu	Arg	Leu	Ala	Val	Thr	Arg	Pro	His	Leu	Gln	Ala
			325						330					335	
Tyr	Leu	Cys	Leu	Ala	Lys	Ala	Arg	Val	Glu	Gln	Leu	Arg	Arg	Glu	Ala
			340					345					350		
Gly	Arg	Ile	Glu	Ala	Arg	Glu	Ile	Gln	Gln	Arg	Val	Val	Arg	Val	Tyr
		355					360					365			
Cys	Tyr	Val	Thr	Val	Val	Ser	Leu	Gln	Tyr	Leu	Thr	Pro	Leu	Ile	Leu
	370					375					380				
Thr	Leu	Asn	Cys	Thr	Leu	Leu	Leu	Lys	Thr	Leu	Gly	Gly	Tyr	Ser	Trp
385					390					395					400
Gly	Leu	Gly	Pro	Ala	Pro	Leu	Leu	Ser	Pro	Asp	Pro	Ser	Ser	Ala	Ser
				405					410					415	
Ala	Ala	Pro	Ile	Gly	Ser	Gly	Glu	Asp	Glu	Val	Gln	Gln	Thr	Ala	Ala
			420					425					430		
Arg	Ile	Ala	Gly	Ala	Leu	Gly	Gly	Leu	Leu	Thr	Pro	Leu	Phe	Leu	Arg
		435					440					445			
Gly	Val	Leu	Ala	Tyr	Leu	Ile	Trp	Trp	Thr	Ala	Ala	Cys	Gln	Leu	Leu
	450					455					460				
Ala	Ser	Leu	Phe	Gly	Leu	Tyr	Phe	His	Gln	His	Leu	Ala	Gly	Ser	
465					470					475					

<210> 1887  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<400> 1887
Met Arg His His Thr Trp Leu Ile Phe Leu Ile Leu Ile Phe Val Glu
1 5 10 15
Met Gly Gly Gln Val Ser Leu Cys Cys Pro Gly Cys Ser Arg Thr Pro
20 25 30
Gly His Lys Pro Ser Ser His Leu Ser Leu Pro Met Arg Arg Asn Tyr
35 40 45
Arg Trp Leu Arg Cys Glu Pro Pro Cys Leu Ala Phe Leu His Tyr Leu
50 55 60
Glu Ile Arg Trp Glu Glu Ala Phe Phe Trp Val Gly Leu Arg Arg His
65 70 75 80
Thr Glu Val Pro Gln Val Ile Gly Ala Gly Pro Leu Pro Phe Ser Pro
85 90 95

Pro Trp Val Val Val Asp Arg Ser Leu Gly Trp Asp Gly Glu Glu Arg  
100 105 110

Ser Cys Cys Val Ser Cys Leu Leu Phe Lys  
115 120

<210> 1888  
<211> 122  
<212> PRT  
<213> Homo sapiens

<400> 1888  
Met Arg His His Thr Trp Leu Ile Phe Leu Ile Leu Ile Phe Val Glu  
1 5 10 15  
Met Gly Gly Gln Val Ser Leu Cys Cys Pro Gly Cys Ser Arg Thr Pro  
20 25 30  
Gly His Lys Pro Ser Ser His Leu Ser Leu Pro Met Arg Arg Asn Tyr  
35 40 45  
Arg Trp Leu Arg Cys Glu Pro Pro Cys Leu Ala Phe Leu His Tyr Leu  
50 55 60  
Glu Ile Arg Trp Glu Glu Ala Phe Phe Trp Val Gly Leu Arg Arg His  
65 70 75 80  
Thr Glu Val Pro Gln Val Ile Gly Ala Gly Pro Leu Pro Phe Ser Pro  
85 90 95  
Pro Trp Val Val Val Asp Arg Ser Leu Gly Trp Asp Gly Glu Glu Arg  
100 105 110  
Ser Cys Cys Val Ser Cys Leu Leu Phe Lys  
115 120

<210> 1889  
<211> 92  
<212> PRT  
<213> Homo sapiens

<400> 1889  
Met Glu Leu Val Phe Leu Ile Ile Ser Leu Val Cys Gln His Cys Ser  
1 5 10 15  
Pro Asp Ser Ala Gly Asp Leu Cys Val Gln Thr Pro Ser Val Trp Pro  
20 25 30  
Arg Thr Leu Met Glu Ile Met Leu Ser Ser Leu Gly Glu Phe Ala Leu  
35 40 45  
Ser Asn Asn Gln Arg Phe Val Cys Phe Asn Asn Ile His Ser Ser Trp

50                      55                      60  
 Ala Trp Trp Leu Thr Ser Val Ile Pro Ala Leu Trp Glu Ala Asp Thr  
 65                      70                      75                      80  
 Gly Gly Leu Leu Glu Ala Arg Ser Leu Arg Pro Ala  
                     85                      90

<210> 1890  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 1890  
 Met Glu Leu Val Phe Leu Ile Ile Ser Leu Val Cys Gln His Cys Ser  
 1                      5                      10                      15  
 Pro Asp Ser Ala Gly Asp Leu Cys Val Gln Thr Pro Ser Val Trp Pro  
                     20                      25                      30  
 Arg Thr Leu Met Glu Ile Met Leu Ser Ser Leu Gly Glu Phe Ala Leu  
                     35                      40                      45  
 Ser Asn Asn Gln Arg Phe Val Cys Phe Asn Asn Ile His Ser Ser Trp  
                     50                      55                      60  
 Ala Trp Trp Leu Thr Ser Val Ile Pro Ala Leu Trp Glu Ala Asp Thr  
 65                      70                      75                      80  
 Gly Gly Leu Leu Glu Ala Arg Ser Leu Arg Pro Ala  
                     85                      90

<210> 1891  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (96)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1891  
 Met Phe Ala Phe Ser Pro Leu Ser Arg Leu Ala Met Leu Gly Val Cys  
 1                      5                      10                      15  
 Cys Gly Cys Cys Leu Gly Leu Phe Leu Glu Ser Asp Thr Gly Ile Asn  
                     20                      25                      30  
 Phe Leu Asn Phe Asn Tyr Leu Ala Ser Tyr Ser Trp Ser Ser Arg Ser  
                     35                      40                      45  
 Ser Asn Phe Asn Asn Leu Gly Ile Phe Ser Phe Phe Phe Glu Thr

50                                      55                                      60  
 Glu Ser Arg Ser Val Ala Gln Ala Gly Val Gln Trp His Tyr Leu Ser  
 65                                      70                                      75                                      80  
 Ser Leu Gln Ala Leu Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu Xaa  
                                     85                                      90                                      95  
 Pro Thr Glu

<210> 1892  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<400> 1892  
 Met Phe Ala Phe Ser Pro Leu Ser Arg Leu Ala Met Leu Gly Val Cys  
 1                                      5                                      10                                      15  
 Cys Gly Cys Cys Leu Gly Leu Phe Leu Glu Ser Asp Thr Gly Ile Asn  
                                     20                                      25                                      30  
 Phe Leu Asn Phe Asn Tyr Leu Ala Ser Tyr Ser Trp Ser Ser Arg Ser  
                                     35                                      40                                      45  
 Ser Asn Phe Asn Asn Leu Gly Ile Phe Ser Phe Phe Phe Phe Glu Thr  
                                     50                                      55                                      60  
 Glu Ser Arg Ser Val Ala Gln Ala Gly Val Gln Trp His Tyr Leu Ser  
 65                                      70                                      75                                      80  
 Ser Leu Gln Ala Leu Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu Ser  
                                     85                                      90                                      95  
 Leu Pro Ser Ser  
                                     100

<210> 1893  
 <211> 167  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (140)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1893  
 Met Leu Gln Gly His Ser Ser Val Phe Gln Ala Leu Leu Gly Thr Phe  
 1                                      5                                      10                                      15  
 Phe Thr Trp Gly Met Thr Ala Ala Gly Ala Ala Leu Val Phe Val Phe



20					25					30					
Ser	Ser	Gly	Gln	Arg	Arg	Ile	Leu	Asp	Gly	Ser	Leu	Gly	Phe	Ala	Ala
		35					40					45			
Gly	Val	Met	Leu	Ala	Ala	Ser	Tyr	Trp	Ser	Leu	Leu	Ala	Pro	Ala	Val
	50					55					60				
Glu	Met	Ala	Thr	Ser	Ser	Gly	Gly	Phe	Gly	Ala	Phe	Ala	Phe	Phe	Pro
65					70					75					80
Val	Ala	Val	Gly	Phe	Thr	Leu	Gly	Ala	Ala	Phe	Val	Tyr	Leu	Ala	Asp
				85					90					95	
Leu	Leu	Met	Pro	His	Leu	Gly	Ala	Ala	Glu	Asp	Pro	Gln	Thr	Ala	Leu
			100					105					110		
Ala	Leu	Asn	Phe	Gly	Ser	Thr	Leu	Met	Lys	Lys	Lys	Ser	Asp	Pro	Glu
		115					120					125			
Gly	His	Ala	Leu	Leu	Phe	Pro	Glu	Arg	Ile	His	Xaa	Ile	Asp	Lys	Ser
	130					135					140				
Glu	Asn	Gly	Glu	Ala	Tyr	Gln	Arg	Lys	Lys	Ala	Ala	Ala	Thr	Gly	Leu
145					150					155					160
Pro	Glu	Gly	Pro	Ala	Val	Pro									
					165										

<210> 1894  
 <211> 167  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (140)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1894															
Met	Leu	Gln	Gly	His	Ser	Ser	Val	Phe	Gln	Ala	Leu	Leu	Gly	Thr	Phe
1				5					10					15	
Phe	Thr	Trp	Gly	Met	Thr	Ala	Ala	Gly	Ala	Ala	Leu	Val	Phe	Val	Phe
			20					25					30		
Ser	Ser	Gly	Gln	Arg	Arg	Ile	Leu	Asp	Gly	Ser	Leu	Gly	Phe	Ala	Ala
		35					40					45			
Gly	Val	Met	Leu	Ala	Ala	Ser	Tyr	Trp	Ser	Leu	Leu	Ala	Pro	Ala	Val
	50					55					60				
Glu	Met	Ala	Thr	Ser	Ser	Gly	Gly	Phe	Gly	Ala	Phe	Ala	Phe	Phe	Pro
65					70					75					80

Val	Ala	Val	Gly	Phe	Thr	Leu	Gly	Ala	Ala	Phe	Val	Tyr	Leu	Ala	Asp
				85					90					95	
Leu	Leu	Met	Pro	His	Leu	Gly	Ala	Ala	Glu	Asp	Pro	Gln	Thr	Ala	Leu
			100					105					110		
Ala	Leu	Asn	Phe	Gly	Ser	Thr	Leu	Met	Lys	Lys	Lys	Ser	Asp	Pro	Glu
		115					120					125			
Gly	His	Ala	Leu	Leu	Phe	Pro	Glu	Arg	Ile	His	Xaa	Ile	Asp	Lys	Ser
	130					135					140				
Glu	Asn	Gly	Glu	Ala	Tyr	Gln	Arg	Lys	Lys	Ala	Ala	Ala	Thr	Gly	Leu
145					150					155					160
Pro	Glu	Gly	Pro	Ala	Val	Pro									
				165											

<210> 1895  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 1895															
Met	Lys	Glu	Gln	Ser	Leu	Pro	Ser	Phe	Leu	Trp	Lys	Met	Leu	Leu	Trp
1				5					10					15	
Tyr	Cys	Leu	Val	Cys	Cys	Asp	Thr	Leu	Glu	Ser	Phe	Val	Ser	Val	Phe
			20					25					30		
Ser	Leu	Tyr	Pro	Gly	Thr	Ala	Leu	Gly	Ile	Trp	Glu	Ala	Leu	Thr	Val
		35					40					45			
Tyr	Gly	Arg	Cys	Ala	Gln	Phe	Phe	Cys	Phe	Gln	Gly	Ala	Lys	Glu	Val
	50					55					60				
Ala	Val	His	Met	Glu	Thr	Phe	Leu	Phe	Leu	Glu	Cys	Glu	Gly	Trp	Gly
65					70					75					80
Pro	Lys	Gln	Val	Pro	Asn	Ala	Ala	Ala	Phe	Leu	Leu	Val			
				85					90						

<210> 1896  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 1896															
Ala	Arg	Ala	Leu	Gly	Leu	Phe	Val	Ser	Met	Phe	Ser	Leu	Thr	Asn	Pro
1				5					10					15	
Ser	Pro	Val	Leu	Ser	Ala	Leu	Leu	Gly	Tyr	Thr	Gln	Leu	Asn	Asn	Leu
			20					25					30		

Val His Phe Leu Val Trp Glu Pro Leu  
35 40

<210> 1897  
<211> 93  
<212> PRT  
<213> Homo sapiens

<400> 1897

Met Lys Glu Gln Ser Leu Pro Ser Phe Leu Trp Lys Met Leu Leu Trp  
1 5 10 15  
Tyr Cys Leu Val Cys Cys Asp Thr Leu Glu Ser Phe Val Ser Val Phe  
20 25 30  
Ser Leu Tyr Pro Gly Thr Ala Leu Gly Ile Trp Glu Ala Leu Thr Val  
35 40 45  
Tyr Gly Arg Cys Ala Gln Phe Phe Cys Phe Gln Gly Ala Lys Glu Val  
50 55 60  
Ala Val His Met Glu Thr Phe Leu Phe Leu Glu Cys Glu Gly Trp Gly  
65 70 75 80  
Pro Lys Gln Val Pro Asn Ala Ala Ala Phe Leu Leu Val  
85 90

<210> 1898  
<211> 117  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (89)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (111)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (116)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1898

Met Thr Ser Ile Trp His Arg Pro Val Cys Pro Leu Ser Trp Leu Val  
1 5 10 15  
Pro Ser Ala Ala Phe Ser Asn Trp Gly Pro Gly Cys Arg Ala Val Cys

	20		25		30										
Ser	Pro	Arg	Trp	Ala	Thr	Pro	Ala	Lys	Ile	Pro	Thr	Pro	Lys	Cys	Asp
		35					40					45			
Arg	Val	Ala	His	Glu	Glu	Gly	Ser	Ala	Leu	Arg	Val	Pro	Ser	Arg	Val
	50					55					60				
His	Ser	Ser	Ser	Gln	Leu	Leu	Arg	Val	Ala	Pro	Ala	Ser	Pro	Thr	Ser
	65				70					75					80
Ser	Leu	Ser	Pro	Val	Met	Ser	Arg	Xaa	Pro	Pro	Pro	Ser	Arg	Val	Ser
				85					90					95	
Val	Trp	Leu	Phe	Val	Cys	Leu	Pro	Thr	Arg	Leu	Pro	Val	Pro	Xaa	Ala
			100					105					110		
Leu	Pro	Leu	Xaa	Pro											
		115													

<210> 1899  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 1899															
Ile	Ser	His	Val	Leu	Ile	Asp	Ala	Tyr	Ile	Ser	Leu	Lys	Arg	Ile	Lys
1				5					10					15	
Ser	Ser	Cys	Asn	Pro	Thr	Thr	Leu	Gly	Met	Cys	Ser	Glu	Asp	Leu	Leu
			20					25					30		
Arg	Leu	Cys	His	Trp	Ser										
		35													

<210> 1900  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 1900															
Met	Thr	Ser	Ile	Trp	His	Arg	Pro	Val	Cys	Pro	Leu	Ser	Trp	Leu	Val
1				5					10					15	
Pro	Ser	Ala	Ala	Phe	Ser	Asn	Trp	Gly	Pro	Gly	Cys	Arg	Ala	Val	Cys
			20					25					30		
Ser	Pro	Arg	Trp	Ala	Thr	Pro	Ala	Lys	Ile	Pro	Thr	Pro	Lys	Cys	Asp
		35					40					45			
Arg	Val	Ala	His	Glu	Glu	Gly	Ser	Ala	Leu	Arg	Val	Pro	Ser	Arg	Val
	50					55					60				

His Ser Ser Ser Gln Leu Leu Arg Val Ala Pro Ala Ser Pro Thr Ser  
65 70 75 80

Ser Leu Ser Pro Val Met Ser Arg  
85

<210> 1901  
<211> 88  
<212> PRT  
<213> Homo sapiens

<400> 1901  
Met Thr Ser Ile Trp His Arg Pro Val Cys Pro Leu Ser Trp Leu Val  
1 5 10 15

Pro Ser Ala Ala Phe Ser Asn Trp Gly Pro Gly Cys Arg Ala Val Cys  
20 25 30

Ser Pro Arg Trp Ala Thr Pro Ala Lys Ile Pro Thr Pro Lys Cys Asp  
35 40 45

Arg Val Ala His Glu Glu Gly Ser Ala Leu Arg Val Pro Ser Arg Val  
50 55 60

His Ser Ser Ser Gln Leu Leu Arg Val Ala Pro Ala Ser Pro Thr Ser  
65 70 75 80

Ser Leu Ser Pro Val Met Ser Arg  
85

<210> 1902  
<211> 113  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (57)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (73)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1902  
Met Asn Ser Ala Phe Ser Thr Cys Leu Leu Leu Leu Gln Asp Leu Gly  
1 5 10 15

Val Pro Leu Thr Leu Thr Gly Leu Pro Pro Ala Leu Gly Leu Ala Pro  
20 25 30

Pro Val Leu Glu Pro Arg Ala Pro Gly Leu Glu Leu Pro Leu Trp Gly

	35		40		45										
Gly	Ser	Gln	Ala	Pro	Pro	Leu	Pro	Xaa	Leu	Ser	Ser	Val	Pro	Cys	Ser
	50					55					60				
Ala	Pro	Pro	Leu	Tyr	Leu	Ser	Val	Xaa	Arg	Pro	Leu	Thr	Glu	Arg	Arg
65					70				75						80
Cys	Arg	Val	Ser	Arg	Gly	Pro	Arg	Trp	Ser	Gln	Gly	Gln	Gly	Trp	Asp
				85					90					95	
Leu	Gln	Gly	Thr	Arg	Gly	Ala	His	Gly	Leu	Arg	His	Leu	Cys	Pro	Gly
			100					105					110		

Ser

<210> 1903  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<400> 1903															
Met	Trp	Arg	Val	Ser	Ile	Ser	Val	Pro	Trp	Leu	Trp	Ser	Ala	Trp	Pro
1				5					10					15	
Ile	Ser	Ser	Val	Gly	Phe	Leu	Cys	Leu	Pro	Ala	Ser	Pro	His	Pro	Ser
			20					25					30		
Leu	Pro	Pro	Ser	Ser	Thr	Leu	His	Asp	Leu	Ala	Val	Thr	Ser	Gly	Pro
			35				40					45			
Glu	Arg	Trp	Arg	Gln	Leu	Thr	Ala	Ala	Ala	Arg	Thr	Val	Ser	Arg	Val
	50					55					60				
Arg	Ser	Ala	Ala	Gly	Trp	Gly	Ser	Trp	Pro	Cys	Pro	Ala	Ser	Met	Asn
65					70					75					80
Ser	Cys	Pro	Arg	Thr	Val	Cys	Leu	Trp	Asn	Leu	Arg	Ser	Ile	Tyr	Cys
				85					90					95	
Val	Cys	Ser	Ser	Arg	Leu	Ser	Thr	Ser	Cys	Arg	Lys	Ser	Pro	Arg	Ile
				100				105					110		
Thr	Met	Pro	Thr	Gln											
				115											

<210> 1904  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<400> 1904

Met Trp Arg Val Ser Ile Ser Val Pro Trp Leu Trp Ser Ala Trp Pro  
 1 5 10 15  
 Ile Ser Ser Val Gly Phe Leu Cys Leu Pro Ala Ser Pro His Pro Ser  
 20 25 30  
 Leu Pro Pro Ser Ser Thr Leu His Asp Leu Ala Val Thr Ser Gly Pro  
 35 40 45  
 Glu Arg Trp Arg Gln Leu Thr Ala Ala Ala Arg Thr Val Ser Arg Val  
 50 55 60  
 Arg Ser Ala Ala Gly Trp Gly Ser Trp Pro Cys Pro Ala Ser Met Asn  
 65 70 75 80  
 Ser Cys Pro Arg Thr Val Cys Leu Trp Asn Leu Arg Ser Ile Tyr Cys  
 85 90 95  
 Val Cys Ser Ser Arg Leu Ser Thr Ser Cys Arg Lys Ser Pro Arg Ile  
 100 105 110  
 Thr Met Pro Thr Gln  
 115

<210> 1905  
 <211> 124  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (118)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1905  
 Met Ile Lys Ser Ala Pro Val Gly Pro Val Ala Gly Gly Ile Met Gly  
 1 5 10 15  
 Cys Ile Met Val Leu Val Leu Ala Val Tyr Ala Tyr Arg His Gln Ile  
 20 25 30  
 His Arg Arg Ser His Gln His Met Ser Pro Leu Ala Ala Gln Glu Met  
 35 40 45  
 Ser Val Arg Met Ser Asn Leu Glu Asn Asp Arg Asp Glu Arg Asp Asp  
 50 55 60  
 Asp Ser His Glu Asp Arg Gly Ile Ile Ser Asn Thr Arg Phe Ile Ala  
 65 70 75 80  
 Ala Val Ile Glu Arg His Ala His Ser Pro Glu Arg Arg Arg Arg Tyr  
 85 90 95  
 Trp Gly Arg Ser Gly Thr Glu Ser Asp His Gly Tyr Ser Thr Met Ser  
 100 105 110

Pro Gln Glu Asp Ser Xaa Lys Ser Ser Met Gln Gln  
115 120

<210> 1906  
<211> 165  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (145)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (147)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (148)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (152)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1906  
Met Ala Val Tyr Leu Leu Trp Gln Glu Leu Gly Pro Ala Val Leu Ala  
1 5 10 15

Gly Val Ala Val Leu Val Phe Val Ile Pro Ile Asn Ala Leu Ala Ala  
20 25 30

Thr Lys Ile Lys Lys Leu Lys Val Ser Leu Ala Thr Leu Cys Val Tyr  
35 40 45

Phe Leu Leu Asp Glu Gly Asn Ile Leu Thr Ala Thr Lys Val Phe Thr  
50 55 60

Ser Met Ser Leu Phe Asn Ile Leu Arg Ile Pro Leu Phe Glu Leu Pro  
65 70 75 80

Thr Val Ile Ser Ala Val Val Gln Thr Lys Ile Ser Leu Gly Arg Leu  
85 90 95

Glu Asp Phe Leu Asn Thr Glu Glu Leu Leu Pro Gln Ser Ile Glu Thr  
100 105 110

Asn Tyr Thr Gly Asp His Ala Ile Gly Phe Thr Asp Ala Ser Phe Ser  
115 120 125

Trp Asp Lys Thr Gly Met Pro Val Leu Lys Glu Ala Leu Trp Leu Met



130		135		140											
Xaa	Leu	Xaa	Xaa	Pro	Gly	Phe	Xaa	Ile	Ala	Phe	Cys	Lys	Lys	Thr	Phe
145					150					155					160
Ser	Leu	Ala	Pro	Ser											
				165											

<210> 1907  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 1907

Cys	Tyr	Arg	Cys	Ile	Phe	Ser	Ile	Val	Ser	Asn	Arg	Phe	Ile	Phe	Ser
1				5					10					15	
Asn	Pro	Trp	Ile	Ser	Ser	Cys	Ile	Phe	Thr	Ile	Ser	Lys	Gln	Ser	Asp
			20					25					30		
Ser	Ile	Ala	Lys	Arg	Gln	Lys	Cys	Glu	Phe	Phe	Phe	Lys	Leu	Val	Asn
		35					40					45			
Thr	Cys														
	50														

<210> 1908  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 1908

Met	Ile	Met	Ser	Ser	Val	Thr	Leu	Leu	Trp	Ser	Ile	Leu	His	Gln	Ala
1				5					10					15	
Asp	Ser	Ser	Glu	Lys	Met	Thr	Ile	Ala	Ala	Ser	Ala	Ser	Leu	Thr	Thr
			20					25					30		
Ile	Asn	Leu	Gly	Ala	Thr	Lys	Asn	Leu	Arg	Gln	Gln	Ile	Leu	Glu	Leu
		35					40					45			
Leu	Gly	Pro	Ile	Ser	Met	Asn	His	Gly	Val	His	Phe	Met	Ala	Ala	Ile
	50					55					60				
Ala	Phe	Val	Trp	Asn	Glu	Arg	Arg	Gln	Asn	Lys	Thr	Thr	Thr	Arg	Thr
65					70					75					80
Lys	Val	Cys	Ile												

<210> 1909

<211> 84  
<212> PRT  
<213> Homo sapiens

<400> 1909  
Met Ile Met Ser Ser Val Thr Leu Leu Trp Ser Ile Leu His Gln Ala  
1 5 10 15  
Asp Ser Ser Glu Lys Met Thr Ile Ala Ala Ser Ala Ser Leu Thr Thr  
20 25 30  
Ile Asn Leu Gly Ala Thr Lys Asn Leu Arg Gln Gln Ile Leu Glu Leu  
35 40 45  
Leu Gly Pro Ile Ser Met Asn His Gly Val His Phe Met Ala Ala Ile  
50 55 60  
Ala Phe Val Trp Asn Glu Arg Arg Gln Asn Lys Thr Thr Thr Arg Thr  
65 70 75 80  
Lys Val Cys Ile

<210> 1910  
<211> 275  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (71)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (153)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1910  
Met Trp Ser Tyr His Leu Ile Gly Leu Ile Trp Thr Ser Glu Phe Ile  
1 5 10 15  
Leu Ala Cys Gln Gln Met Thr Ile Ala Gly Ala Val Val Thr Cys Tyr  
20 25 30  
Phe Asn Arg Ser Lys Asn Asp Pro Pro Asp His Pro Ile Leu Ser Ser  
35 40 45  
Leu Ser Ile Leu Phe Phe Tyr His Gln Gly Thr Ile Val Lys Gly Ser  
50 55 60  
Phe Leu Ile Ser Val Val Xaa Ile Pro Arg Ile Ile Val Met Tyr Met  
65 70 75 80  
Gln Asn Ala Leu Lys Glu Gln Gln His Gly Ala Leu Ser Arg Tyr Leu

85								90				95			
Phe	Arg	Cys	Cys	Tyr	Cys	Cys	Phe	Trp	Cys	Leu	Asp	Lys	Tyr	Leu	Leu
			100						105				110		
His	Leu	Asn	Gln	Asn	Ala	Tyr	Thr	Thr	Thr	Ala	Ile	Asn	Gly	Thr	Asp
		115					120					125			
Phe	Cys	Thr	Ser	Ala	Lys	Asp	Ala	Phe	Lys	Ile	Leu	Ser	Lys	Asn	Ser
	130					135					140				
Ser	His	Phe	Thr	Ser	Ile	Asn	Cys	Xaa	Gly	Asp	Phe	Ile	Ile	Phe	Leu
145					150					155					160
Gly	Lys	Val	Leu	Val	Val	Cys	Phe	Thr	Val	Phe	Gly	Gly	Leu	Met	Ala
				165					170					175	
Phe	Asn	Tyr	Asn	Arg	Ala	Phe	Gln	Val	Trp	Ala	Val	Pro	Leu	Leu	Leu
			180						185				190		
Val	Ala	Phe	Phe	Ala	Tyr	Leu	Val	Ala	His	Ser	Phe	Leu	Ser	Val	Phe
		195					200					205			
Glu	Thr	Val	Leu	Asp	Ala	Leu	Phe	Leu	Cys	Phe	Ala	Val	Asp	Leu	Glu
	210					215					220				
Thr	Asn	Asp	Gly	Ser	Ser	Glu	Lys	Pro	Tyr	Phe	Met	Asp	Gln	Glu	Phe
225					230					235					240
Leu	Ser	Phe	Val	Lys	Arg	Ser	Asn	Lys	Leu	Asn	Asn	Ala	Arg	Ala	Gln
				245					250				255		
Gln	Asp	Lys	His	Ser	Leu	Arg	Asn	Glu	Glu	Gly	Thr	Glu	Leu	Gln	Ala
			260						265				270		
Ile	Val	Arg													
		275													

<210> 1911  
 <211> 275  
 <212> PRT  
 <213> Homo sapiens

<400> 1911  
 Met Trp Ser Tyr His Leu Ile Gly Leu Ile Trp Thr Ser Glu Phe Ile  
 1 5 10 15  
 Leu Ala Cys Gln Gln Met Thr Ile Ala Gly Ala Val Val Thr Cys Tyr  
 20 25 30  
 Phe Asn Arg Ser Lys Asn Asp Pro Pro Asp His Pro Ile Leu Ser Ser  
 35 40 45  
 Leu Ser Ile Leu Phe Phe Tyr His Gln Gly Thr Ile Val Lys Gly Ser  
 50 55 60

Phe	Leu	Ile	Ser	Val	Val	Arg	Ile	Pro	Arg	Ile	Ile	Val	Met	Tyr	Met	65	70	75	80
Gln	Asn	Ala	Leu	Lys	Glu	Gln	Gln	His	Gly	Ala	Leu	Ser	Arg	Tyr	Leu	85	90	95	
Phe	Arg	Cys	Cys	Tyr	Cys	Cys	Phe	Trp	Cys	Leu	Asp	Lys	Tyr	Leu	Leu	100	105	110	
His	Leu	Asn	Gln	Asn	Ala	Tyr	Thr	Thr	Thr	Ala	Ile	Asn	Gly	Thr	Asp	115	120	125	
Phe	Cys	Thr	Ser	Ala	Lys	Asp	Ala	Phe	Lys	Ile	Leu	Ser	Lys	Asn	Ser	130	135	140	
Ser	His	Phe	Thr	Ser	Ile	Asn	Cys	Phe	Gly	Asp	Phe	Ile	Ile	Phe	Leu	145	150	155	160
Gly	Lys	Val	Leu	Val	Val	Cys	Phe	Thr	Val	Phe	Gly	Gly	Leu	Met	Ala	165	170	175	
Phe	Asn	Tyr	Asn	Arg	Ala	Phe	Gln	Val	Trp	Ala	Val	Pro	Leu	Leu	Leu	180	185	190	
Val	Ala	Phe	Phe	Ala	Tyr	Leu	Val	Ala	His	Ser	Phe	Leu	Ser	Val	Phe	195	200	205	
Glu	Thr	Val	Leu	Asp	Ala	Leu	Phe	Leu	Cys	Phe	Ala	Val	Asp	Leu	Glu	210	215	220	
Thr	Asn	Asp	Gly	Ser	Ser	Glu	Lys	Pro	Tyr	Phe	Met	Asp	Gln	Glu	Phe	225	230	235	240
Leu	Ser	Phe	Val	Lys	Arg	Ser	Asn	Lys	Leu	Asn	Asn	Ala	Arg	Ala	Gln	245	250	255	
Gln	Asp	Lys	His	Ser	Leu	Arg	Asn	Glu	Glu	Gly	Thr	Glu	Leu	Gln	Ala	260	265	270	
Ile	Val	Arg														275			

<210> 1912  
 <211> 136  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (133)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1912  
 Met Ala Cys Ile Leu Lys Arg Lys Ser Val Ile Ala Val Ser Phe Ile

1		5		10		15									
Ala	Ala	Phe	Leu	Phe	Leu	Leu	Val	Val	Arg	Leu	Val	Asn	Glu	Val	Asn
			20					25					30		
Phe	Pro	Leu	Leu	Leu	Asn	Cys	Phe	Gly	Gln	Pro	Gly	Thr	Lys	Trp	Ile
		35					40					45			
Pro	Phe	Ser	Tyr	Thr	Tyr	Arg	Arg	Pro	Leu	Arg	Thr	His	Tyr	Gly	Tyr
		50				55					60				
Ile	Asn	Val	Lys	Thr	Gln	Glu	Pro	Leu	Gln	Leu	Asp	Cys	Asp	Leu	Cys
65					70					75					80
Ala	Ile	Val	Ser	Asn	Ser	Gly	Gln	Met	Val	Gly	Gln	Lys	Val	Gly	Asn
				85					90					95	
Glu	Ile	Asp	Arg	Ser	Ser	Cys	Ile	Trp	Arg	Met	Asn	Asn	Ala	Pro	Thr
			100					105					110		
Lys	Gly	Tyr	Glu	Glu	Asp	Val	Gly	Arg	Met	Thr	Met	Ile	Arg	Val	Val
		115					120					125			
Pro	Ile	Pro	Ala	Xaa	Leu	Phe	Cys								
		130				135									

<210> 1913  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 1913
Val Phe Thr Ser Ala Lys Tyr Tyr Gly Glu Leu Ser Leu Lys Cys Ala
1 5 10 15
Ile Leu Asp Lys Gly Leu Leu Pro Thr Leu Phe Cys Asn Phe Asp Thr
20 25 30
Ser Ile Phe Thr Pro Ile Asn Ile Thr Lys Pro Gln Phe Tyr Arg Trp
35 40 45
Lys Glu Leu Leu Phe Phe Cys Cys Ser Leu Met Gln Phe Leu Ile Leu
50 55 60

<210> 1914  
 <211> 305  
 <212> PRT  
 <213> Homo sapiens

<400> 1914

Met 1	Ala	Cys	Ile	Leu 5	Lys	Arg	Lys	Ser	Val 10	Ile	Ala	Val	Ser	Phe 15	Ile
Ala	Ala	Phe	Leu 20	Phe	Leu	Leu	Val	Val 25	Arg	Leu	Val	Asn	Glu 30	Val	Asn
Phe	Pro	Leu 35	Leu	Leu	Asn	Cys	Phe 40	Gly	Gln	Pro	Gly	Thr 45	Lys	Trp	Ile
Pro	Phe 50	Ser	Tyr	Thr	Tyr	Arg 55	Arg	Pro	Leu	Arg	Thr 60	His	Tyr	Gly	Tyr
Ile 65	Asn	Val	Lys	Thr	Gln 70	Glu	Pro	Leu	Gln	Leu	Asp 75	Cys	Asp	Leu	Cys 80
Ala	Ile	Val	Ser	Asn 85	Ser	Gly	Gln	Met	Val 90	Gly	Gln	Lys	Val	Gly 95	Asn
Glu	Ile	Asp	Arg 100	Ser	Ser	Cys	Ile	Trp 105	Arg	Met	Asn	Asn	Ala	Pro	Thr
Lys	Gly	Tyr 115	Glu	Glu	Asp	Val	Gly 120	Arg	Met	Thr	Met	Ile 125	Arg	Val	Val
Ser 130	His	Thr	Ser	Val	Pro	Leu 135	Leu	Leu	Lys	Asn	Pro 140	Asp	Tyr	Phe	Phe
Lys 145	Glu	Ala	Asn	Thr	Thr 150	Ile	Tyr	Val	Ile	Trp 155	Gly	Pro	Phe	Arg	Asn 160
Met	Arg	Lys	Asp	Gly 165	Asn	Gly	Ile	Val	Tyr 170	Asn	Met	Leu	Lys	Lys 175	Thr
Val	Gly	Ile	Tyr 180	Pro	Asn	Ala	Gln	Ile 185	Tyr	Val	Thr	Thr	Glu 190	Lys	Arg
Met	Ser	Tyr 195	Cys	Asp	Gly	Val	Phe 200	Lys	Lys	Glu	Thr	Gly 205	Lys	Asp	Arg
Val 210	Gln	Ser	Gly	Ser	Tyr	Leu 215	Ser	Thr	Gly	Trp	Phe 220	Thr	Phe	Ile	Leu
Ala 225	Met	Asp	Ala	Cys	Tyr 230	Gly	Ile	His	Val	Tyr 235	Gly	Met	Ile	Asn	Asp 240
Thr	Tyr	Cys	Lys	Thr 245	Glu	Gly	Tyr	Arg	Lys 250	Val	Pro	Tyr	His	Tyr 255	Tyr
Glu	Gln	Gly	Arg 260	Asp	Glu	Cys	Asp	Glu 265	Tyr	Phe	Leu	His	Glu 270	His	Ala
Pro	Tyr	Gly 275	Gly	His	Arg	Phe	Ile 280	Thr	Glu	Lys	Lys	Val 285	Phe	Ala	Lys
Trp 290	Ala	Lys	Lys	His	Arg	Ile 295	Ile	Phe	Thr	His	Pro 300	Asn	Trp	Thr	Leu

Ser  
305

<210> 1915  
<211> 305  
<212> PRT  
<213> Homo sapiens

<400> 1915

Met	Ala	Cys	Ile	Leu	Lys	Arg	Lys	Ser	Val	Ile	Ala	Val	Ser	Phe	Ile
1				5					10					15	

Ala	Ala	Phe	Leu	Phe	Leu	Leu	Val	Val	Arg	Leu	Val	Asn	Glu	Val	Asn
			20					25					30		

Phe	Pro	Leu	Leu	Leu	Asn	Cys	Phe	Gly	Gln	Pro	Gly	Thr	Lys	Trp	Ile
		35					40					45			

Pro	Phe	Ser	Tyr	Thr	Tyr	Arg	Arg	Pro	Leu	Arg	Thr	His	Tyr	Gly	Tyr
	50					55					60				

Ile	Asn	Val	Lys	Thr	Gln	Glu	Pro	Leu	Gln	Leu	Asp	Cys	Asp	Leu	Cys
65					70					75					80

Ala	Ile	Val	Ser	Asn	Ser	Gly	Gln	Met	Val	Gly	Gln	Lys	Val	Gly	Asn
				85					90					95	

Glu	Ile	Asp	Arg	Ser	Ser	Cys	Ile	Trp	Arg	Met	Asn	Asn	Ala	Pro	Thr
		100						105					110		

Lys	Gly	Tyr	Glu	Glu	Asp	Val	Gly	Arg	Met	Thr	Met	Ile	Arg	Val	Val
		115					120					125			

Ser	His	Thr	Ser	Val	Pro	Leu	Leu	Leu	Lys	Asn	Pro	Asp	Tyr	Phe	Phe
	130					135					140				

Lys	Glu	Ala	Asn	Thr	Thr	Ile	Tyr	Val	Ile	Trp	Gly	Pro	Phe	Arg	Asn
145					150					155					160

Met	Arg	Lys	Asp	Gly	Asn	Gly	Ile	Val	Tyr	Asn	Met	Leu	Lys	Lys	Thr
			165						170					175	

Val	Gly	Ile	Tyr	Pro	Asn	Ala	Gln	Ile	Tyr	Val	Thr	Thr	Glu	Lys	Arg
		180						185					190		

Met	Ser	Tyr	Cys	Asp	Gly	Val	Phe	Lys	Lys	Glu	Thr	Gly	Lys	Asp	Arg
		195					200					205			

Val	Gln	Ser	Gly	Ser	Tyr	Leu	Ser	Thr	Gly	Trp	Phe	Thr	Phe	Ile	Leu
	210					215					220				

Ala	Met	Asp	Ala	Cys	Tyr	Gly	Ile	His	Val	Tyr	Gly	Met	Ile	Asn	Asp
225					230					235					240

Thr	Tyr	Cys	Lys	Thr	Glu	Gly	Tyr	Arg	Lys	Val	Pro	Tyr	His	Tyr	Tyr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

	245		250		255										
Glu	Gln	Gly	Arg	Asp	Glu	Cys	Asp	Glu	Tyr	Phe	Leu	His	Glu	His	Ala
			260					265					270		
Pro	Tyr	Gly	Gly	His	Arg	Phe	Ile	Thr	Glu	Lys	Lys	Val	Phe	Ala	Lys
		275					280					285			
Trp	Ala	Lys	Lys	His	Arg	Ile	Ile	Phe	Thr	His	Pro	Asn	Trp	Thr	Leu
	290					295					300				
Ser															
305															

<210> 1916  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1916															
Met	Asp	Ser	Gly	Gly	Trp	Met	Asp	Gly	Asp	Thr	Arg	Gln	Ala	Phe	Pro
1				5					10					15	
Cys	Pro	Trp	Gly	Leu	Val	Ser	Leu	Pro	Leu	Ala	Gly	Val	Thr	Leu	Ala
			20					25					30		
Leu	His	Val	Phe	Thr	Ala	Ser	Ala	Leu	Pro	Arg	Glu	Leu	Arg	Ser	Glu
		35					40					45			
Lys	Asp	Trp	Pro	Gly	Gln	Ser	Pro	Gly	Pro	Ile	Val	Ser	Val	Pro	Gly
	50					55					60				
Xaa	Gln	Glu	Gly	Ile	Leu	Glu	Gly	Gly	Pro	Gly	Thr	Gln	Phe	Ala	Leu
65					70					75					80

<210> 1917  
 <211> 331  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (249)  
 <223> Xaa equals any of the naturally occurring L-amino acids



<220>  
 <221> SITE  
 <222> (257)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (298)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (300)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (301)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1917  
 Met Asp Arg Leu Lys Ser His Leu Thr Val Cys Phe Leu Pro Ser Val  
   1                  5                  10                  15  
 Pro Phe Leu Ile Leu Val Ser Thr Leu Ala Thr Ala Lys Ser Val Thr  
                   20                  25                  30  
 Asn Ser Thr Leu Asn Gly Thr Asn Val Val Leu Gly Ser Val Pro Val  
                   35                  40                  45  
 Ile Ile Ala Arg Thr Asp His Ile Ile Val Lys Glu Gly Asn Ser Ala  
   50                  55                  60  
 Leu Ile Asn Cys Ser Val Tyr Gly Ile Pro Asp Pro Gln Phe Lys Trp  
   65                  70                  75                  80  
 Tyr Asn Ser Ile Gly Lys Leu Leu Lys Glu Glu Glu Asp Glu Lys Glu  
                   85                  90                  95  
 Arg Gly Gly Gly Lys Trp Gln Met His Asp Ser Gly Leu Leu Asn Ile  
                   100                  105                  110  
 Thr Lys Val Ser Phe Ser Asp Arg Gly Lys Tyr Thr Cys Val Ala Ser  
                   115                  120                  125  
 Asn Ile Tyr Gly Thr Val Asn Asn Thr Val Thr Leu Arg Val Ile Phe  
   130                  135                  140  
 Thr Ser Gly Asp Met Gly Val Tyr Tyr Met Val Val Cys Leu Val Ala  
  145                  150                  155                  160  
 Phe Thr Ile Val Met Val Leu Asn Ile Thr Arg Leu Cys Met Met Ser  
                   165                  170                  175  
 Ser His Leu Lys Lys Thr Glu Lys Ala Ile Asn Glu Phe Phe Arg Thr  
                   180                  185                  190



<400> 1919

Met Gln Gly Ala Ile Met Gly Ile Phe Phe Cys Leu Ser Gly Val Gly  
1 5 10 15

Ser Leu Leu Gly Ser Ser Leu Val Ala Leu Leu Ser Leu Pro Gly Gly  
20 25 30

Trp Leu His Cys Pro Lys Asp Phe Gly Asn Ile Asn Asn Cys Arg Met  
35 40 45

Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala Leu  
50 55 60

Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly Pro  
65 70 75 80

Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly  
85 90

<210> 1920

<211> 91

<212> PRT

<213> Homo sapiens

<400> 1920

Met Gln Gly Ala Ile Met Gly Ile Phe Phe Cys Leu Ser Gly Val Gly  
1 5 10 15

Ser Leu Leu Gly Ser Ser Leu Val Ala Leu Leu Ser Leu Pro Gly Gly  
20 25 30

Trp Leu His Cys Pro Lys Asp Phe Gly Asn Ile Asn Asn Cys Arg Met  
35 40 45

Asp Leu Tyr Phe Phe Leu Leu Ala Gly Ile Gln Ala Val Thr Ala Leu  
50 55 60

Leu Phe Val Trp Ile Ala Gly Arg Tyr Glu Arg Ala Ser Gln Gly Pro  
65 70 75 80

Ala Ser His Ser Arg Phe Ser Arg Asp Arg Gly  
85 90

<210> 1921

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1921

Met Ser Leu Thr Pro Pro Thr Pro Val Leu Phe Leu Phe Leu Ser Leu  
1 5 10 15

Leu Trp Ala Arg Phe Phe Leu Ser Arg Leu Lys Cys Pro Gly Gly Cys

	20		25		30
Leu	Cys	Trp	Pro	Leu	Leu
	35			Leu	Ser
			40	Arg	Gly
				Ser	Ser
				Ala	Ala
				45	Pro
				Trp	
Ala	Ser	Val	Pro	Met	Asp
	50			Gly	Ala
				55	Ala
				His	Ala
				Ala	Ala
				60	Ile
				Ser	Ala
				Pro	
Gly	Leu	Ser	Val	Gln	Leu
	65			70	Leu
				75	Ala
				Ser	Pro
				Ser	Ala
				80	
Asn	Thr	Glu	Leu	Arg	Val
				85	Leu
				Leu	Leu
				Leu	Pro
				90	Ala
				Arg	Val
				Arg	His
				95	Tyr
Leu	Pro	Ser	Ser	Phe	His
				Gln	Val
				100	Leu
				105	Gly
				Ser	Ser

<210> 1922  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 1922															
Met	Ser	Leu	Thr	Pro	Pro	Thr	Pro	Val	Leu	Phe	Leu	Phe	Leu	Ser	Leu
1				5					10					15	
Leu	Trp	Ala	Arg	Phe	Phe	Leu	Ser	Arg	Leu	Lys	Cys	Pro	Gly	Gly	Cys
			20					25					30		
Leu	Cys	Trp	Pro	Leu	Leu	Leu	Ser	Arg	Gly	Ser	Ser	Ala	Ala	Pro	Trp
	35						40					45			
Ala	Ser	Val	Pro	Met	Asp	Gly	Ala	Ala	His	Ala	Ala	Ile	Ser	Ala	Pro
	50					55					60				
Gly	Leu	Ser	Val	Gln	Leu	Leu	Pro	Arg	Gln	Leu	Ala	Ser	Pro	Ser	Ala
	65				70				75						80
Asn	Thr	Glu	Leu	Arg	Val	Leu	Leu	Leu	Pro	Ala	Arg	Val	Arg	His	Tyr
				85					90					95	
Leu	Pro	Ser	Ser	Phe	His	Gln	Val	Leu	Gly	Ser	Ser				
				100				105							

<210> 1923  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1923

Ser Phe Leu Phe Phe Phe Phe Phe Phe Phe Glu Thr Gly Phe Arg Ser  
1 5 10 15

Val Phe Gln Ala Gly Val Gln Trp Cys Asp Leu Gly Xaa Leu Pro Pro  
20 25 30

Arg Phe Lys Lys Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr  
35 40 45

Arg His Ala Leu Pro His Pro Val Thr Phe Phe Cys Val Phe Leu Val  
50 55 60

Glu Met Ala Phe Ala Met Leu Ala Met Ala Gly Leu Lys Leu Leu Ala  
65 70 75 80

Ser

<210> 1924

<211> 108

<212> PRT

<213> Homo sapiens

<400> 1924

Met Ser Leu Thr Pro Pro Thr Pro Val Leu Phe Leu Phe Leu Ser Leu  
1 5 10 15

Leu Trp Ala Arg Phe Phe Leu Ser Arg Leu Lys Cys Pro Gly Gly Cys  
20 25 30

Leu Cys Trp Pro Leu Leu Leu Ser Arg Gly Ser Ser Ala Ala Pro Trp  
35 40 45

Ala Ser Val Pro Met Asp Gly Ala Ala His Ala Ala Ile Ser Ala Pro  
50 55 60

Gly Leu Ser Val Gln Leu Leu Pro Arg Gln Leu Ala Ser Pro Ser Ala  
65 70 75 80

Asn Thr Glu Leu Arg Val Leu Leu Leu Pro Ala Arg Val Arg His Tyr  
85 90 95

Leu Pro Ser Ser Phe His Gln Val Leu Gly Ser Ser  
100 105

<210> 1925

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE  
 <222> (59)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1925  
 Met Tyr Gln Pro His Thr Gln Ser Trp Phe Pro Trp Cys Leu Ile Leu  
   1                  5                  10                  15  
 Ser Ser Ser Gln Ala Gly Thr Arg Gly Leu Ser Trp His Leu Ala Asn  
           20                  25                  30  
 Ala Pro Val Lys Pro Gly Met Gly Leu Ala Phe Ala Leu Ile Arg Leu  
           35                  40                  45  
 Asp Ser Leu Leu Thr Cys Tyr Leu Pro Cys Xaa His Val Arg Leu Val  
       50                  55                  60  
 Arg Ala His Thr Cys Thr Ser Pro Thr Arg Pro Leu Leu Ser Tyr Gln  
   65                  70                  75                  80  
 Ser Val Pro Ala Ala Ser Met Ile Cys Pro Pro Cys Glu Ile Pro His  
           85                  90                  95  
 Gly Glu Gly Ser Phe Glu Val Ala Gly Arg Ser Thr Glu Met Xaa His  
           100                  105                  110  
 Leu Pro Val Glu Ile Pro Arg Leu Pro Gly Gln Cys Gln Gln Ser Gln  
       115                  120                  125  
 Lys Thr His Pro Leu Ala Trp Ser  
       130                  135

<210> 1926  
 <211> 136  
 <212> PRT  
 <213> Homo sapiens

<400> 1926  
 Met Tyr Gln Pro His Thr Gln Ser Trp Phe Pro Trp Cys Leu Ile Leu  
   1                  5                  10                  15  
 Ser Ser Ser Gln Ala Gly Thr Arg Gly Leu Ser Trp His Leu Ala Asn  
           20                  25                  30  
 Ala Pro Val Lys Pro Gly Met Gly Leu Ala Phe Ala Leu Ile Arg Leu  
           35                  40                  45  
 Asp Ser Leu Leu Thr Cys Tyr Leu Pro Cys Leu His Val Arg Leu Val  
       50                  55                  60

Arg	Ala	His	Thr	Cys	Thr	Ser	Pro	Thr	Arg	Pro	Leu	Leu	Ser	Tyr	Gln
65					70					75					80
Ser	Val	Pro	Ala	Ala	Ser	Met	Ile	Cys	Pro	Pro	Cys	Glu	Ile	Pro	His
				85					90					95	
Gly	Glu	Gly	Ser	Phe	Glu	Val	Ala	Gly	Arg	Ser	Thr	Glu	Met	Ser	His
			100					105					110		
Leu	Pro	Val	Glu	Ile	Pro	Arg	Leu	Pro	Gly	Gln	Cys	Gln	Gln	Ser	Gln
		115					120					125			
Lys	Thr	His	Pro	Leu	Ala	Trp	Ser								
	130					135									

<210> 1927  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<400> 1927															
Met	Leu	Leu	Gly	Gly	Arg	Leu	Leu	Thr	Gly	Leu	Ala	Cys	Gly	Val	Ala
1				5					10					15	
Ser	Leu	Val	Ala	Pro	Val	Ser	Val	Pro	Ser	Leu	Glu	Cys	Pro	Val	Ser
			20					25					30		
Arg	Pro	Glu	Thr	Glu	Gly	Glu	Trp	Asp	Lys	Pro	Leu	Pro	Arg	Pro	Gly
		35					40					45			
Gly	Ala	Ala	Pro	Pro	Gly	Gly	Thr	Phe	Trp	Val	Pro	Gly	Leu	Lys	Ser
	50					55					60				
Leu	Arg	Tyr	Leu	Ala	Val	Pro	Pro	Val	Asp	Pro	Gly	Lys	Asp	Pro	Thr
	65				70				75						80
Val	Leu	Ser	Ile	Leu	His										
				85											

<210> 1928  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 1928															
Met	Leu	Leu	Leu	Leu	His	Ile	His	Val	Phe	Gly	His	Ser	Val	Pro	Ala
1				5					10					15	
Ala	Trp	Ser	Ala	Ser	Cys	Val	Gln	Ile	Leu	Pro	Val	Leu	Leu	Arg	Ile
			20					25					30		
Arg	Ser	Gln	Ile	Leu	Ile	His	Thr	Ile	Leu	Phe	Ala	Ala	Tyr	Thr	Leu
		35					40					45			

Ala Phe Leu Asn Phe Phe Leu Ser Pro Asn Tyr Ala Val Phe Cys Leu  
50 55 60

Ala Ile Val Leu Leu His Thr Ser Ser Phe Gly Leu Glu Tyr Pro Ser  
65 70 75 80

Leu Cys Leu Phe Phe Leu Lys Glu Thr Gly Ser Gln Cys Gly Leu Val  
85 90 95

Ser Asn Ser

<210> 1929  
<211> 99  
<212> PRT  
<213> Homo sapiens

<400> 1929  
Met Leu Leu Leu Leu His Ile His Val Phe Gly His Ser Val Pro Ala  
1 5 10 15

Ala Trp Ser Ala Ser Cys Val Gln Ile Leu Pro Val Leu Leu Arg Ile  
20 25 30

Arg Ser Gln Ile Leu Ile His Thr Ile Leu Phe Ala Ala Tyr Thr Leu  
35 40 45

Ala Phe Leu Asn Phe Phe Leu Ser Pro Asn Tyr Ala Val Phe Cys Leu  
50 55 60

Ala Ile Val Leu Leu His Thr Ser Ser Phe Gly Leu Glu Tyr Pro Ser  
65 70 75 80

Leu Cys Leu Phe Phe Leu Lys Glu Thr Gly Ser Gln Cys Gly Leu Val  
85 90 95

Ser Asn Ser

<210> 1930  
<211> 84  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1930  
Met Trp Ser Ser Ser Trp Asp His Arg Ile Thr Thr Pro Arg Leu Ala  
1 5 10 15



Asn	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Phe	Val	Glu	Met	Gly	Phe
			20					25						30		
Arg	Tyr	Val	Gly	Gln	Ala	Gly	Leu	Lys	Leu	Leu	Ala	Ser	Ser	Asn	Leu	
		35					40					45				
Pro	Ala	Leu	Ala	Ser	Gln	Ser	Ala	Gly	Ile	Thr	Gly	Val	Ser	His	His	
	50					55					60					
Xaa	Trp	Leu	Gly	Gly	Leu	Ile	Lys	Thr	Pro	Ile	Leu	Ser	Leu	Thr	Pro	
65					70					75					80	
Arg	Val	Ser	Gly													

<210> 1931  
 <211> 178  
 <212> PRT  
 <213> Homo sapiens

<400> 1931

Met	Ile	Lys	Arg	Lys	Val	Asp	Arg	Glu	Asp	Lys	Leu	Asp	Ile	Pro	Met	
1				5				10						15		
Phe	Phe	Gly	Phe	Val	Gly	Leu	Phe	Asn	Leu	Leu	Leu	Leu	Trp	Pro	Gly	
		20						25					30			
Phe	Phe	Leu	Leu	His	Tyr	Thr	Gly	Phe	Glu	Asp	Phe	Glu	Phe	Pro	Asn	
		35					40				45					
Lys	Val	Val	Leu	Met	Cys	Ile	Ile	Ile	Asn	Gly	Leu	Ile	Gly	Thr	Val	
	50					55					60					
Leu	Ser	Glu	Phe	Leu	Trp	Leu	Trp	Gly	Cys	Phe	Leu	Thr	Ser	Ser	Leu	
65					70				75						80	
Ile	Gly	Thr	Leu	Ala	Leu	Ser	Leu	Thr	Ile	Pro	Leu	Ser	Ile	Ile	Ala	
				85					90					95		
Asp	Met	Cys	Met	Gln	Lys	Val	Gln	Phe	Ser	Trp	Leu	Phe	Phe	Ala	Gly	
			100					105					110			
Ala	Ile	Pro	Val	Phe	Phe	Ser	Phe	Phe	Ile	Val	Thr	Leu	Leu	Cys	His	
		115					120					125				
Tyr	Asn	Asn	Trp	Asp	Pro	Val	Met	Val	Gly	Ile	Arg	Arg	Ile	Phe	Ala	
	130				135						140					
Phe	Ile	Cys	Arg	Lys	His	Arg	Ile	Gln	Arg	Val	Pro	Glu	Asp	Ser	Glu	
145				150					155						160	
Gln	Cys	Glu	Ser	Leu	Ile	Ser	Met	His	Ser	Val	Ser	Gln	Glu	Asp	Gly	
				165					170					175		

Ala Ser

<210> 1932  
<211> 468  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (19)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (125)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1932  
Met Asn Ser Gln Asn Ser Gly Phe Thr Gln Arg Arg Arg Met Ala Leu  
1 5 10 15  
Gly Ile Xaa Ile Leu Leu Leu Val Asp Val Ile Trp Val Ala Ser Ser  
20 25 30  
Glu Leu Thr Ser Tyr Val Phe Thr Gln Tyr Asn Lys Pro Phe Phe Ser  
35 40 45  
Thr Phe Ala Lys Thr Ser Met Phe Val Leu Tyr Leu Leu Gly Phe Ile  
50 55 60  
Ile Trp Lys Pro Trp Arg Gln Gln Cys Thr Arg Gly Leu Arg Gly Lys  
65 70 75 80  
His Ala Ala Phe Phe Ala Asp Ala Glu Gly Tyr Phe Ala Ala Cys Thr  
85 90 95  
Thr Asp Thr Thr Met Asn Ser Ser Leu Ser Glu Pro Leu Tyr Val Pro  
100 105 110  
Val Lys Phe His Asp Leu Pro Ser Glu Lys Pro Glu Xaa Thr Asn Ile  
115 120 125  
Asp Thr Glu Lys Thr Pro Lys Lys Ser Arg Val Arg Phe Ser Asn Ile  
130 135 140  
Met Glu Ile Arg Gln Leu Pro Ser Ser His Ala Leu Glu Ala Lys Leu  
145 150 155 160  
Ser Arg Met Ser Tyr Pro Val Lys Glu Gln Glu Ser Ile Leu Lys Thr  
165 170 175  
Val Gly Lys Leu Thr Ala Thr Gln Val Ala Lys Ile Ser Phe Phe Phe  
180 185 190

Cys	Phe	Val	Trp	Phe	Leu	Ala	Asn	Leu	Ser	Tyr	Gln	Glu	Ala	Leu	Ser	195	200	205	
Asp	Thr	Gln	Val	Ala	Ile	Val	Asn	Ile	Leu	Ser	Ser	Thr	Ser	Gly	Leu	210	215	220	
Phe	Thr	Leu	Ile	Leu	Ala	Ala	Val	Phe	Pro	Ser	Asn	Ser	Gly	Asp	Arg	225	230	235	240
Phe	Thr	Leu	Ser	Lys	Leu	Leu	Ala	Val	Ile	Leu	Ser	Ile	Gly	Gly	Val	245	250	255	
Val	Leu	Val	Asn	Leu	Ala	Gly	Ser	Glu	Lys	Pro	Ala	Gly	Arg	Asp	Thr	260	265	270	
Val	Gly	Ser	Ile	Trp	Ser	Leu	Ala	Gly	Ala	Met	Leu	Tyr	Ala	Val	Tyr	275	280	285	
Ile	Val	Met	Ile	Lys	Arg	Lys	Val	Asp	Arg	Glu	Asp	Lys	Leu	Asp	Ile	290	295	300	
Pro	Met	Phe	Phe	Gly	Phe	Val	Gly	Leu	Phe	Asn	Leu	Leu	Leu	Leu	Trp	305	310	315	320
Pro	Gly	Phe	Phe	Leu	Leu	His	Tyr	Thr	Gly	Phe	Glu	Asp	Phe	Glu	Phe	325	330	335	
Pro	Asn	Lys	Val	Val	Leu	Met	Cys	Ile	Ile	Ile	Asn	Gly	Leu	Ile	Gly	340	345	350	
Thr	Val	Leu	Ser	Glu	Phe	Leu	Trp	Leu	Trp	Gly	Cys	Phe	Leu	Thr	Ser	355	360	365	
Ser	Leu	Ile	Gly	Thr	Leu	Ala	Leu	Ser	Leu	Thr	Ile	Pro	Leu	Ser	Ile	370	375	380	
Ile	Ala	Asp	Met	Cys	Met	Gln	Lys	Val	Gln	Phe	Ser	Trp	Leu	Phe	Phe	385	390	395	400
Ala	Gly	Ala	Ile	Pro	Val	Phe	Phe	Ser	Phe	Phe	Ile	Val	Thr	Leu	Leu	405	410	415	
Cys	His	Tyr	Asn	Asn	Trp	Asp	Pro	Val	Met	Val	Gly	Ile	Arg	Arg	Ile	420	425	430	
Phe	Ala	Phe	Ile	Cys	Arg	Lys	His	Arg	Ile	Gln	Arg	Val	Pro	Glu	Asp	435	440	445	
Ser	Glu	Gln	Cys	Glu	Ser	Leu	Ile	Ser	Met	His	Ser	Val	Ser	Gln	Glu	450	455	460	
Asp	Gly	Ala	Ser													465			

<211> 178  
<212> PRT  
<213> Homo sapiens

<400> 1933

Met	Ile	Lys	Arg	Lys	Val	Asp	Arg	Glu	Asp	Lys	Leu	Asp	Ile	Pro	Met
1				5				10						15	
Phe	Phe	Gly	Phe	Val	Gly	Leu	Phe	Asn	Leu	Leu	Leu	Leu	Trp	Pro	Gly
			20					25					30		
Phe	Phe	Leu	Leu	His	Tyr	Thr	Gly	Phe	Glu	Asp	Phe	Glu	Phe	Pro	Asn
		35					40					45			
Lys	Val	Val	Leu	Met	Cys	Ile	Ile	Ile	Asn	Gly	Leu	Ile	Gly	Thr	Val
	50					55					60				
Leu	Ser	Glu	Phe	Leu	Trp	Leu	Trp	Gly	Cys	Phe	Leu	Thr	Ser	Ser	Leu
65					70					75					80
Ile	Gly	Thr	Leu	Ala	Leu	Ser	Leu	Thr	Ile	Pro	Leu	Ser	Ile	Ile	Ala
				85					90					95	
Asp	Met	Cys	Met	Gln	Lys	Val	Gln	Phe	Ser	Trp	Leu	Phe	Phe	Ala	Gly
			100					105					110		
Ala	Ile	Pro	Val	Phe	Phe	Ser	Phe	Phe	Ile	Val	Thr	Leu	Leu	Cys	His
	115						120					125			
Tyr	Asn	Asn	Trp	Asp	Pro	Val	Met	Val	Gly	Ile	Arg	Arg	Ile	Phe	Ala
	130					135					140				
Phe	Ile	Cys	Arg	Lys	His	Arg	Ile	Gln	Arg	Val	Pro	Glu	Asp	Ser	Glu
145					150				155						160
Gln	Cys	Glu	Ser	Leu	Ile	Ser	Met	His	Ser	Val	Ser	Gln	Glu	Asp	Gly
				165					170					175	

Ala Ser

<210> 1934  
<211> 116  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1934

Met Leu Val Ala Trp Cys Leu Ala Pro Gly Asp Leu Leu Leu Leu Val  
1 5 10 15

Ile Ile Thr Leu Pro Arg Lys Glu Val Thr Gly Ser Met Ser Thr Val  
20 25 30

Cys Gln Cys Glu Ala Gln Pro Ala Met Leu Pro Lys Gly His Phe Thr  
35 40 45

His His Ser Pro Lys Ala Ala Arg Lys Ala Gln Glu Gly Thr Arg Lys  
50 55 60

Ala Arg Trp Val Ala Leu Glu Asp Ser Ala Pro Phe His Pro Ser Pro  
65 70 75 80

Gly Trp Gly Leu Ile Leu Gln Leu His Pro Gln Pro Met Asn Xaa Ser  
85 90 95

Gln Ser Ala Trp Lys His Cys Cys Trp Lys Asn Cys Glu Glu Pro Xaa  
100 105 110

Glu Gly Lys Lys  
115

<210> 1935

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1935

Lys Thr Pro His Ser Trp Val Ile His Ala Gly Glu Ala Ser Cys His  
1 5 10 15

Val Glu Arg Thr Leu Lys Gln Ser Tyr Gly Ala Ala His Met Arg Gly  
20 25 30

Thr Glu Ala Pro Ser His Gln Pro Cys Glu Pro Pro Trp Lys Trp Ser  
35 40 45

Leu Gln His Gln Ser Ser Phe Gln Met Ile Ala Ala Pro Asn Thr Ile  
50 55 60

Leu Thr Ser Ile Xaa Arg Thr Ser Ala Ser  
65 70

<210> 1936

<211> 127  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (85)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (88)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (95)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (107)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (123)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1936  
Met Lys Arg Glu Gly Arg Cys Val Leu His Met His Pro Ser Ser Pro  
1 5 10 15  
Pro Ser Arg Leu Ser Phe Phe Leu Phe Leu Arg Gln Ser Leu Ala Leu  
20 25 30  
Leu Pro Arg Leu Glu Cys Ser Gly Val Ile Leu Ala Gln Arg Asn Leu  
35 40 45  
Arg Leu Leu Gly Ser Arg Asp Ser Pro Ala Ser Ala Ser Cys Cys Pro  
50 55 60  
Pro Ser Ser Leu Ser Arg Arg Trp Arg Trp Arg Glu Val Pro Glu Gly  
65 70 75 80  
Leu Trp Gly Leu Xaa Trp Val Xaa Leu Cys Ser Leu Ser Ala Xaa Trp  
85 90 95  
Thr Ala Leu Lys Gly Ser Ser Pro Pro Phe Xaa Ala Lys Gln Leu Gly  
100 105 110  
His His Arg Asn Gly Ile Asn Leu Ala Glu Xaa Ser Leu Pro Lys  
115 120 125

<210> 1937

<211> 44  
<212> PRT  
<213> Homo sapiens

<400> 1937  
Leu Met Pro Val Ile Pro Ala Ile Trp Glu Thr Glu Ala Gly Gly Leu  
1 5 10 15  
Leu Glu Ala Arg Ser Leu Arg Gln Pro Gly Gln His Ser Glu Thr Pro  
20 25 30  
Ser Leu Gln Glu Thr Phe Lys Asn Lys Asn Ser Ser  
35 40

<210> 1938  
<211> 89  
<212> PRT  
<213> Homo sapiens

<400> 1938  
Met Asn His Arg Ala Trp Pro Phe Leu Pro Phe Phe Phe Phe Leu  
1 5 10 15  
Arg Arg Ser Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Ala Val  
20 25 30  
Ser Ala His Cys Gly Leu Arg Leu Pro Gly Ser Arg His Ser Pro Ala  
35 40 45  
Ser Ala Ser Arg Val Ala Gly Thr Ala Gly Ala Arg Tyr His Ala Arg  
50 55 60  
Leu Val Phe Phe Val Phe Leu Val Glu Thr Gly Phe His Arg Val Gly  
65 70 75 80  
Gln Asp Gly Leu Asp Leu Leu Thr Ser  
85

<210> 1939  
<211> 89  
<212> PRT  
<213> Homo sapiens

<400> 1939  
Met Asn His Arg Ala Trp Pro Phe Leu Pro Phe Phe Phe Phe Leu  
1 5 10 15  
Arg Arg Ser Leu Ala Leu Ser Pro Arg Leu Glu Cys Ser Gly Ala Val  
20 25 30  
Ser Ala His Cys Gly Leu Arg Leu Pro Gly Ser Arg His Ser Pro Ala  
35 40 45

Ser Ala Ser Arg Val Ala Gly Thr Ala Gly Ala Arg Tyr His Ala Arg  
50 55 60

Leu Val Phe Phe Val Phe Leu Val Glu Thr Gly Phe His Arg Val Gly  
65 70 75 80

Gln Asp Gly Leu Asp Leu Leu Thr Ser  
85

<210> 1940  
<211> 223  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (159)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (208)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (218)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (221)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1940  
Met Leu His Val Thr Arg Gly Val Trp Gly Ser Arg Val Arg Val Trp  
1 5 10 15

Pro Leu Leu Pro Ala Leu Leu Gly Pro Pro Arg Ala Leu Ser Ser Leu  
20 25 30

Ala Ala Lys Met Gly Glu Tyr Arg Lys Met Trp Asn Pro Arg Glu Pro  
35 40 45

Arg Asp Trp Ala Gln Gln Tyr Arg Glu Arg Phe Ile Pro Phe Ser Lys  
50 55 60

Glu Gln Leu Leu Arg Leu Leu Ile Gln Ala Leu Tyr Asp Pro Ile Asn  
65 70 75 80

Pro Asp Arg Glu Thr Leu Asp Gln Pro Ser Leu Thr Asp Pro Gln Arg  
85 90 95

Leu Ser Asn Glu Gln Glu Val Leu Arg Ala Leu Glu Pro Leu Leu Ala  
100 105 110



Gln	Ala	Asn	Phe	Ser	Pro	Leu	Ser	Glu	Asp	Thr	Leu	Ala	Tyr	Ala	Leu
		115					120					125			
Val	Val	His	His	Pro	Gln	Asp	Glu	Val	Gln	Val	Thr	Val	Asn	Leu	Asp
	130					135					140				
Gln	Tyr	Val	Tyr	Ile	His	Phe	Trp	Ala	Leu	Gly	Gln	Pro	Ser	Xaa	Ala
145					150					155					160
Asp	Ala	Pro	Glu	Val	Gln	Arg	Gly	Leu	Gln	Ala	Cys	Leu	Leu	Ser	Pro
				165					170					175	
Lys	Leu	Pro	Leu	Arg	Glu	Arg	Arg	Tyr	Phe	Lys	Arg	Val	Val	Leu	Ala
			180					185					190		
Ser	Pro	Asp	Gln	Asn	Gly	Asp	Thr	Trp	Asp	Leu	Lys	Lys	Phe	Ser	Xaa
		195					200					205			
Thr	Pro	Pro	Leu	Gly	Lys	Ala	Trp	Glu	Xaa	Leu	Leu	Xaa	Gly	Thr	
	210					215					220				

<210> 1941  
 <211> 169  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (108)  
 <223> Xaa equals any of the naturally occurring L-amino acids

Ser	Pro	Lys	Xaa	Pro	Pro	Ala	Glu	Arg	Arg	Tyr	Phe	Lys	Arg	Val	Val
1				5					10					15	

Leu	Xaa	Ala	Arg	Thr	Lys	Arg	Xaa	His	Leu	Val	Leu	Lys	Ser	Phe	Lys
			20					25					30		

Asp	Thr	Pro	Leu	Glu	Gly	Leu	Glu	Gln	Leu	Leu	Pro	Glu	Leu	Lys	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35	40	45
Arg Thr Pro Thr Leu Gln Arg Ala Leu Leu Asn Leu Met Leu Val Val		
50	55	60
Ser Gly Val Ala Ile Phe Val Asn Val Gly Met Val Val Leu Thr Asp		
65	70	75
Leu Lys Val Ala Thr Ser Leu Leu Leu Leu Leu Phe Ala Ile Phe Met		
	85	90
Gly Leu Arg Ala Ser Lys Cys Arg Ala Ala Leu Xaa Ser Cys Thr Gly		
	100	105
Cys Ser Pro Ser Lys Asp Ser Trp Pro Arg Gly Gln Val Glu Ala Asp		
	115	120
Thr Gln Leu Val Ser Ala Cys Gln Asn Ala Cys Pro Val Ser Arg Leu		
	130	135
Ser Gln Pro Arg Gly Glu Leu Pro Phe Thr Asp Ser Ser Gln Gly Trp		
145	150	155
His Arg Pro Gln Glu Cys Arg Leu Val		
	165	

<210> 1942  
 <211> 327  
 <212> PRT  
 <213> Homo sapiens

<400> 1942
Met Leu His Val Thr Arg Gly Val Trp Gly Ser Arg Val Arg Val Trp
1 5 10 15
Pro Leu Leu Pro Ala Leu Leu Gly Pro Pro Arg Ala Leu Ser Ser Leu
20 25 30
Ala Ala Lys Met Gly Glu Tyr Arg Lys Met Trp Asn Pro Arg Glu Pro
35 40 45
Arg Asp Trp Ala Gln Gln Tyr Arg Glu Arg Phe Ile Pro Phe Ser Lys
50 55 60
Glu Gln Leu Leu Arg Leu Leu Ile Gln Ala Leu Tyr Asp Pro Ile Asn
65 70 75 80
Pro Asp Arg Glu Thr Leu Asp Gln Pro Ser Leu Thr Asp Pro Gln Arg
85 90 95
Leu Ser Asn Glu Gln Glu Val Leu Arg Ala Leu Glu Pro Leu Leu Ala
100 105 110
Gln Ala Asn Phe Ser Pro Leu Ser Glu Asp Thr Leu Ala Tyr Ala Leu
115 120 125

Val Val His His Pro Gln Asp Glu Val Gln Val Thr Val Asn Leu Asp  
 130 135 140  
 Gln Tyr Val Tyr Ile His Phe Trp Ala Leu Gly Gln Arg Val Gly Gln  
 145 150 155 160  
 Met Pro Leu Lys Ser Ser Val Gly Ser Arg Arg Val Phe Phe Thr Lys  
 165 170 175  
 Leu Pro Pro Ala Glu Arg Arg Tyr Phe Lys Arg Val Val Leu Ala Ala  
 180 185 190  
 Arg Thr Lys Arg Gly His Leu Val Leu Lys Ser Phe Lys Asp Thr Pro  
 195 200 205  
 Leu Glu Gly Leu Glu Gln Leu Leu Pro Glu Leu Lys Val Arg Thr Pro  
 210 215 220  
 Thr Leu Gln Arg Ala Leu Leu Asn Leu Met Leu Val Val Ser Gly Val  
 225 230 235 240  
 Ala Ile Phe Val Asn Val Gly Met Val Val Leu Thr Asp Leu Lys Val  
 245 250 255  
 Ala Thr Ser Leu Leu Leu Leu Leu Phe Ala Ile Phe Met Gly Leu Arg  
 260 265 270  
 Ala Ser Lys Cys Arg Ala Ala Leu Asn Ser Cys Thr Gly Cys Ser Pro  
 275 280 285  
 Ser Lys Asp Ser Trp Pro Arg Gly Gln Val Glu Ala Asp Thr Gln Leu  
 290 295 300  
 Val Leu Arg Leu Pro Lys Cys Val Ser Cys Leu Glu Ala Glu Ser Ala  
 305 310 315 320  
 Gln Arg Gly Ala Ala Phe Tyr  
 325

<210> 1943  
 <211> 118  
 <212> PRT  
 <213> Homo sapiens

<400> 1943  
 Met Lys Asp Leu Trp Phe Leu Leu Leu Val Val Ala Ala Pro Thr Trp  
 1 5 10 15  
 Val Leu Ser Gln Val Arg Leu Gln Glu Ser Gly Pro Gly Leu Val Ser  
 20 25 30  
 Pro Ser Gln Thr Leu Ser Leu Thr Cys Ser Val Ser Gly Ile Asn Ile  
 35 40 45

Gly Gly Gly Lys Tyr Tyr Trp Ala Trp Val Arg Gln Arg Pro Gly Glu  
50 55 60

Gly Pro Glu Trp Val Gly Tyr Ile Ser Tyr Thr Gly Val Ala Asp Tyr  
65 70 75 80

Asn Pro Ser Leu Arg Gly Arg Leu Thr Ile Ser Leu Gly Glu Ser Asn  
85 90 95

Ser Phe Ser Leu Thr Leu Thr Ser Met Thr Ala Ala Asp Ala Val Val  
100 105 110

Tyr Tyr Cys Ala Thr Asp  
115

<210> 1944  
<211> 174  
<212> PRT  
<213> Homo sapiens

<400> 1944  
Lys Gly Val Phe Tyr Phe Phe Ile Phe Tyr Leu Pro Leu Phe Ser Trp  
1 5 10 15

Leu Cys Ser Arg Val Cys Val Phe Ala Cys Leu Leu Ser Cys Ser Phe  
20 25 30

Phe Phe Trp Met Lys Thr Pro Ala Phe Pro Asp Ser Pro Pro Ser Ser  
35 40 45

Val Leu Gln Phe Ser Glu Lys Ser Trp Asp Met Trp Glu Gly Ala Trp  
50 55 60

Glu Leu Gly Ser Leu Arg Leu Pro Gly Arg Gln Phe Arg Leu Cys Arg  
65 70 75 80

Lys Glu Gln Ser Pro Trp Glu Ala Leu Gly Glu Gly Gly Ala Ala Gly  
85 90 95

Pro Ala Arg Met Val Leu Pro Ala Thr Gly Gly Leu Arg Val Val Ser  
100 105 110

Ala Pro Cys Ile Ser Pro Ser Leu Leu Thr Phe Leu Leu Cys Phe Pro  
115 120 125

Pro Ser Val Cys Gln Arg Gly Gly Thr Gly Asn Arg Thr Ala Val Ala  
130 135 140

Ala Leu Ser Leu Leu Ser Thr Val Tyr Ser Gly Leu Ser Gly Asp Ser  
145 150 155 160

Arg Glu Pro Gly His Leu Ala Ala Val Arg Pro Leu Asn Leu  
165 170

<210> 1945  
<211> 162  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (115)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (143)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1945  
Met Ala Ser Ala Leu Ser Tyr Val Ser Lys Phe Lys Ser Phe Val Ile  
1 5 10 15  
Leu Phe Val Thr Pro Leu Leu Leu Leu Pro Leu Val Ile Leu Met Pro  
20 25 30  
Ala Lys Val Cys Val Gln Tyr Met Lys Asp Thr Asn Met Leu Phe Leu  
35 40 45  
Gly Gly Leu Ile Val Ala Val Ala Val Glu Arg Trp Asn Leu His Lys  
50 55 60  
Arg Ile Ala Leu Arg Thr Leu Leu Trp Val Gly Ala Lys Pro Ala Arg  
65 70 75 80  
Leu Met Leu Gly Phe Met Gly Val Thr Ala Leu Leu Ser Met Trp Ile  
85 90 95  
Ser Asn Thr Ala Thr Thr Ala Met Met Val Pro Ile Val Glu Ala Ile  
100 105 110  
Leu Gln Xaa Met Glu Ala Thr Ser Ala Ala Thr Glu Ala Gly Leu Glu  
115 120 125  
Leu Val Asp Lys Gly Lys Ala Lys Glu Leu Pro Gly Ser Gln Xaa Ile  
130 135 140  
Phe Glu Gly Pro Thr Leu Gly Gln Gln Glu Asp Gln Arg Ala Glu Glu  
145 150 155 160  
Val Val

<210> 1946  
<211> 173  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1946

Glu	Glu	Pro	Gln	Asp	His	Thr	His	Ser	Pro	Tyr	Pro	Pro	Gln	Asp	Tyr
1				5					10					15	

Arg	Thr	Phe	Trp	His	Thr	Leu	Tyr	Arg	Val	Leu	Gly	Phe	Thr	Pro	Gln
			20					25					30		

Asn	Asp	Pro	Thr	Met	Ser	Thr	His	His	Gln	Asn	Pro	Ala	Asn	Gly	Pro
		35					40					45			

Pro	Leu	Pro	Pro	Ser	Pro	Asp	Ala	Glu	Met	Xaa	Met	Gly	Ser	Trp	Arg
	50					55					60				

Val	Gly	Ser	Glu	Met	Lys	Gly	Thr	Pro	Gln	Trp	Ala	Ala	Gly	Pro	Ile
65					70					75					80

Phe	Pro	Lys	Pro	Cys	His	Tyr	Leu	Cys	Glu	Gly	Gly	Gln	Val	Ala	Glu
				85					90					95	

Gly	Ser	Gly	Cys	Arg	Leu	Leu	Tyr	Pro	Leu	Cys	Leu	Lys	His	Pro	Pro
			100					105					110		

His	Arg	Ala	Leu	Val	Phe	Thr	Arg	Phe	Val	Leu	Asp	Ser	Leu	Asn	Gly
		115					120					125			

Asn	Xaa	Ile	Pro	Trp	Leu	Arg	Ala	Lys	Thr	Thr	Thr	Tyr	Gln	Cys	Pro
	130					135					140				

Cys	Pro	Phe	Gln	Leu	Thr	Leu	Ser	Ser	Leu	Arg	Ser	Ser	Leu	Ser	Leu
145					150					155					160

Trp	Lys	Gly	His	Pro	Ser	Gln	Gly	Arg	Asn	Ala	Trp	Ser
				165					170			

<210> 1947

<211> 407

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (357)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1947

Met	Ala	Ser	Ala	Leu	Ser	Tyr	Val	Ser	Lys	Phe	Lys	Ser	Phe	Val	Ile
1				5					10					15	

Leu	Phe	Val	Thr	Pro	Leu	Leu	Leu	Leu	Pro	Leu	Val	Ile	Leu	Met	Pro
			20					25					30		

Ala	Lys	Val	Cys	Val	Gln	Tyr	Met	Lys	Asp	Thr	Asn	Met	Leu	Phe	Leu
		35					40					45			

Gly	Gly	Leu	Ile	Val	Ala	Val	Ala	Val	Glu	Arg	Trp	Asn	Leu	His	Lys
	50					55					60				

Arg	Ile	Ala	Leu	Arg	Thr	Leu	Leu	Trp	Val	Gly	Ala	Lys	Pro	Ala	Arg
65					70					75					80

Leu	Met	Leu	Gly	Phe	Met	Gly	Val	Thr	Ala	Leu	Leu	Ser	Met	Trp	Ile
				85					90					95	

Ser	Asn	Thr	Ala	Thr	Thr	Ala	Met	Met	Val	Pro	Ile	Val	Glu	Ala	Ile
			100					105					110		

Leu	Gln	Gln	Met	Glu	Ala	Thr	Ser	Ala	Ala	Thr	Glu	Ala	Gly	Leu	Glu
		115					120					125			

Leu	Val	Asp	Lys	Gly	Lys	Ala	Lys	Glu	Leu	Pro	Gly	Ser	Gln	Val	Ile
	130					135					140				

Phe	Glu	Gly	Pro	Thr	Leu	Gly	Gln	Gln	Glu	Asp	Gln	Glu	Arg	Lys	Arg
145					150					155					160

Leu	Cys	Lys	Ala	Met	Thr	Leu	Cys	Ile	Cys	Tyr	Ala	Ala	Ser	Ile	Gly
				165					170					175	

Gly	Thr	Ala	Thr	Leu	Thr	Gly	Thr	Gly	Pro	Asn	Val	Val	Leu	Leu	Gly
			180					185					190		

Xaa	Met	Asn	Glu	Leu	Phe	Pro	Asp	Ser	Lys	Asp	Leu	Val	Asn	Phe	Ala
		195					200					205			

Ser	Trp	Phe	Ala	Phe	Ala	Phe	Pro	Asn	Met	Leu	Val	Met	Leu	Leu	Phe
	210					215						220			

Ala	Trp	Leu	Trp	Leu	Gln	Phe	Val	Tyr	Met	Arg	Phe	Lys	Tyr	Val	Ser
225					230					235					240

Asp	Ala	Thr	Val	Ala	Ile	Phe	Val	Ala	Thr	Leu	Leu	Phe	Ile	Val	Pro
				245					250					255	

Ser	Gln	Lys	Pro	Lys	Phe	Asn	Phe	Arg	Ser	Gln	Thr	Glu	Glu	Glu	Arg
			260					265					270		

Lys	Thr	Pro	Phe	Tyr	Pro	Pro	Pro	Leu	Leu	Asp	Trp	Lys	Val	Thr	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



275					280					285						
Glu	Lys	Val	Pro	Trp	Gly	Ile	Val	Leu	Leu	Leu	Gly	Gly	Gly	Phe	Ala	
290					295					300						
Leu	Ala	Lys	Gly	Ser	Glu	Ala	Ser	Gly	Leu	Ser	Val	Trp	Met	Gly	Lys	
305					310					315					320	
Gln	Met	Glu	Pro	Leu	His	Ala	Val	Pro	Pro	Ala	Ala	Ile	Thr	Leu	Ile	
325					330					335						
Leu	Ser	Leu	Leu	Val	Ala	Val	Phe	Thr	Glu	Cys	Thr	Ser	Asn	Val	Ala	
340					345					350						
Thr	Thr	Thr	Leu	Xaa	Leu	Pro	Ile	Phe	Ala	Ser	Met	Val	Lys	Thr	Gly	
355					360					365						
Val	Ile	Met	Asn	Ile	Ile	Gly	Val	Phe	Cys	Val	Phe	Leu	Ala	Val	Asn	
370					375					380						
Thr	Trp	Gly	Arg	Ala	Ile	Phe	Asp	Leu	Asp	His	Phe	Pro	Asp	Trp	Ala	
385					390					395					400	
Asn	Val	Thr	His	Ile	Glu	Thr										
405																

<210> 1948  
 <211> 162  
 <212> PRT  
 <213> Homo sapiens

<400> 1948															
Met	Ala	Ser	Ala	Leu	Ser	Tyr	Val	Ser	Lys	Phe	Lys	Ser	Phe	Val	Ile
1				5					10					15	
Leu	Phe	Val	Thr	Pro	Leu	Leu	Leu	Leu	Pro	Leu	Val	Ile	Leu	Met	Pro
			20					25					30		
Ala	Lys	Val	Cys	Val	Gln	Tyr	Met	Lys	Asp	Thr	Asn	Met	Leu	Phe	Leu
		35					40					45			
Gly	Gly	Leu	Ile	Val	Ala	Val	Ala	Val	Glu	Arg	Trp	Asn	Leu	His	Lys
	50					55					60				
Arg	Ile	Ala	Leu	Arg	Thr	Leu	Leu	Trp	Val	Gly	Ala	Lys	Pro	Ala	Arg
65					70					75					80
Leu	Met	Leu	Gly	Phe	Met	Gly	Val	Thr	Ala	Leu	Leu	Ser	Met	Trp	Ile
				85					90					95	
Ser	Asn	Thr	Ala	Thr	Thr	Ala	Met	Met	Val	Pro	Ile	Val	Glu	Ala	Ile
			100					105					110		
Leu	Gln	Gln	Met	Glu	Ala	Thr	Ser	Ala	Ala	Thr	Glu	Ala	Gly	Leu	Glu
	115						120					125			



Leu Val Asp Lys Gly Lys Ala Lys Glu Leu Pro Gly Ser Gln Val Ile  
130 135 140

Phe Glu Gly Pro Thr Leu Gly Gln Gln Glu Asp Gln Glu Arg Lys Arg  
145 150 155 160

Leu Cys

<210> 1949  
<211> 377  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (327)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1949  
Met Pro Ala Lys Val Cys Val Gln Tyr Met Lys Asp Thr Asn Met Leu  
1 5 10 15

Phe Leu Gly Gly Leu Ile Val Ala Val Ala Val Glu Arg Trp Asn Leu  
20 25 30

His Lys Arg Ile Ala Leu Arg Thr Leu Leu Trp Val Gly Ala Lys Pro  
35 40 45

Ala Arg Leu Met Leu Gly Phe Met Gly Val Thr Ala Leu Leu Ser Met  
50 55 60

Trp Ile Ser Asn Thr Ala Thr Thr Ala Met Met Val Pro Ile Val Glu  
65 70 75 80

Ala Ile Leu Gln Gln Met Glu Ala Thr Ser Ala Ala Thr Glu Ala Gly  
85 90 95

Leu Glu Leu Val Asp Lys Gly Lys Ala Lys Glu Leu Pro Gly Ser Gln  
100 105 110

Val Ile Phe Glu Gly Pro Thr Leu Gly Gln Gln Glu Asp Gln Glu Arg  
115 120 125

Lys Arg Leu Cys Lys Ala Met Thr Leu Cys Ile Cys Tyr Ala Ala Ser  
130 135 140

Ile Gly Gly Thr Ala Thr Leu Thr Gly Thr Gly Pro Asn Val Val Leu  
145 150 155 160

Leu Gly Gln Met Asn Glu Leu Phe Pro Asp Ser Lys Asp Leu Val Asn  
165 170 175

Phe Ala Ser Trp Phe Ala Phe Ala Phe Pro Asn Met Leu Val Met Leu

180						185						190					
Leu	Phe	Ala	Trp	Leu	Trp	Leu	Gln	Phe	Val	Tyr	Met	Arg	Phe	Lys	Tyr		
195						200						205					
Val	Ser	Asp	Ala	Thr	Val	Ala	Ile	Phe	Val	Ala	Thr	Leu	Leu	Phe	Ile		
210						215						220					
Val	Pro	Ser	Gln	Lys	Pro	Lys	Phe	Asn	Phe	Arg	Ser	Gln	Thr	Glu	Glu		
225						230						235					
Glu	Arg	Lys	Thr	Pro	Phe	Tyr	Pro	Pro	Pro	Leu	Leu	Asp	Trp	Lys	Val		
245						250						255					
Thr	Gln	Glu	Lys	Val	Pro	Trp	Gly	Ile	Val	Leu	Leu	Leu	Gly	Gly	Gly		
260						265						270					
Phe	Ala	Leu	Ala	Lys	Gly	Ser	Glu	Ala	Ser	Gly	Leu	Ser	Val	Trp	Met		
275						280						285					
Gly	Lys	Gln	Met	Glu	Pro	Leu	His	Ala	Val	Pro	Pro	Ala	Ala	Ile	Thr		
290						295						300					
Leu	Ile	Leu	Ser	Leu	Leu	Val	Ala	Val	Phe	Thr	Glu	Cys	Thr	Ser	Asn		
305						310						315					
Val	Ala	Thr	Thr	Thr	Leu	Xaa	Leu	Pro	Ile	Phe	Ala	Ser	Met	Val	Lys		
325						330						335					
Thr	Gly	Val	Ile	Met	Asn	Ile	Ile	Gly	Val	Phe	Cys	Val	Phe	Leu	Ala		
340						345						350					
Val	Asn	Thr	Trp	Gly	Arg	Ala	Ile	Phe	Asp	Leu	Asp	His	Phe	Pro	Asp		
355						360						365					
Trp	Ala	Asn	Val	Thr	His	Ile	Glu	Thr									
370						375											

<210> 1950  
 <211> 104  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (63)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (74)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1950

Met	Ser	Leu	Leu	Leu	Leu	Leu	Ser	Val	Leu	Met	Ser	Pro	Gly	Ala	Arg
1				5					10					15	

Pro	Ser	Asp	Pro	Val	Glu	Val	Ile	Ala	Ser	Gly	Pro	Thr	Val	Ala	Ser
			20					25					30		

Ser	His	Asn	Val	Gln	Asp	Cys	Leu	His	Ile	Leu	Asn	Arg	Tyr	Gly	Leu
		35					40					45			

Arg	Ala	Ala	Leu	Pro	Arg	Ser	Val	Lys	Thr	Val	Leu	Ser	Arg	Xaa	Asp
	50					55					60				

Ser	Asp	Pro	His	Gly	Pro	His	Thr	Cys	Xaa	His	Val	Leu	Asn	Val	Ile
65					70					75					80

Ile	Gly	Ser	Asn	Val	Leu	Ala	Leu	Ala	Glu	Ala	Gln	Arg	Gln	Ala	Glu
				85					90					95	

Ala	Leu	Gly	Tyr	Lys	Leu	Xaa	Cys
			100				

<210> 1951

<211> 81

<212> PRT

<213> Homo sapiens

<400> 1951

Gln	Val	Pro	Met	Ser	Trp	Thr	Pro	Thr	Ser	Cys	Ser	Cys	Gly	Leu	Gly
1				5					10					15	

Asp	Gly	Ile	Gly	His	Ile	Leu	Gly	Val	Gln	Arg	Arg	Pro	Thr	Arg	Ala
			20					25					30		

Arg	Ser	Asp	Gly	Arg	Ala	Ser	Gln	Thr	Gly	Arg	Trp	Gly	Leu	Pro	Pro
		35					40					45			

Thr	Pro	Glu	Asp	Glu	Asp	Lys	Pro	Leu	Gly	Gln	Phe	Ser	Val	Pro	Val
	50					55					60				

Leu	Leu	Pro	Trp	Ala	Ala	Ser	Leu	Leu	Ser	Pro	Ser	Pro	Cys	Phe	Phe
65					70					75					80

Leu

<210> 1952

<211> 295

<212> PRT

<213> Homo sapiens

<400> 1952

Met Ser Leu Leu Leu Leu Leu Ser Val Leu Met Ser Pro Gly Ala Arg  
1 5 10 15

Pro Ser Asp Pro Val Glu Val Ile Ala Ser Gly Pro Thr Val Ala Ser  
20 25 30

Ser His Asn Val Gln Asp Cys Leu His Ile Leu Asn Arg Tyr Gly Leu  
35 40 45

Arg Ala Ala Leu Pro Arg Ser Val Lys Thr Val Leu Ser Arg Ala Asp  
50 55 60

Ser Asp Pro His Gly Pro His Thr Cys Gly His Val Leu Asn Val Ile  
65 70 75 80

Ile Gly Ser Asn Val Leu Ala Leu Ala Glu Ala Gln Arg Gln Ala Glu  
85 90 95

Ala Leu Gly Tyr Gln Ala Val Val Leu Ser Ala Ala Met Gln Gly Asp  
100 105 110

Val Lys Ser Met Ala Gln Phe Tyr Gly Leu Leu Ala His Val Ala Arg  
115 120 125

Thr Arg Leu Thr Pro Ser Met Ala Gly Ala Ser Val Glu Glu Asp Ala  
130 135 140

Gln Leu His Glu Leu Ala Ala Glu Leu Gln Ile Pro Asp Leu Gln Leu  
145 150 155 160

Glu Glu Ala Leu Glu Thr Met Ala Trp Gly Arg Gly Pro Val Cys Leu  
165 170 175

Leu Ala Gly Gly Glu Pro Thr Val Gln Leu Gln Gly Ser Gly Arg Gly  
180 185 190

Gly Arg Asn Gln Glu Leu Ala Leu Arg Val Gly Ala Glu Leu Arg Arg  
195 200 205

Trp Pro Leu Gly Pro Ile Asp Val Leu Phe Leu Ser Gly Gly Thr Asp  
210 215 220

Gly Gln Asp Gly Pro Thr Glu Ala Ala Gly Ala Trp Val Thr Pro Glu  
225 230 235 240

Leu Ala Ser Gln Ala Ala Ala Glu Gly Leu Asp Ile Ala Thr Phe Leu  
245 250 255

Ala His Asn Asp Ser His Thr Phe Phe Cys Cys Leu Gln Gly Gly Ala  
260 265 270

His Leu Leu His Thr Gly Met Thr Gly Thr Asn Val Met Asp Thr His  
275 280 285

Leu Leu Phe Leu Arg Pro Arg

290

295

<210> 1953  
 <211> 116  
 <212> PRT  
 <213> Homo sapiens

<400> 1953  
 Met Trp Trp Ala Leu Cys Ser Met Leu Pro Leu Leu Gly Cys Ala Cys  
   1                  5                  10                  15  
 Ser Ser Gly Cys Trp Gly Ser Gly Pro Thr Pro Leu Leu Ala Glu Pro  
                   20                  25                  30  
 Thr Phe Leu Cys Val Ser Ser Arg Pro His Asn Pro Leu Ser Phe Leu  
                   35                  40                  45  
 Ser Val Leu Pro Cys Ser Arg Gly Pro Gly Pro Ser Gly Leu Gln Gly  
           50                  55                  60  
 Asp Gly Ala Gly Leu Pro Ala His Leu Gly Pro Leu Ser Cys Ile Cys  
   65                  70                  75                  80  
 Leu Pro Ser Leu Leu Cys Asp Leu Gly Glu Arg Gln Cys Pro Leu Trp  
                   85                  90                  95  
 Ala Val Arg Ser Thr Gln Cys Leu Ile Ala Gly Lys Lys Val Leu Gln  
                   100                  105                  110  
 Arg Leu Cys Pro  
           115

<210> 1954  
 <211> 116  
 <212> PRT  
 <213> Homo sapiens

<400> 1954  
 Met Trp Trp Ala Leu Cys Ser Met Leu Pro Leu Leu Gly Cys Ala Cys  
   1                  5                  10                  15  
 Ser Ser Gly Cys Trp Gly Ser Gly Pro Thr Pro Leu Leu Ala Glu Pro  
                   20                  25                  30  
 Thr Phe Leu Cys Val Ser Ser Arg Pro His Asn Pro Leu Ser Phe Leu  
                   35                  40                  45  
 Ser Val Leu Pro Cys Ser Arg Gly Pro Gly Pro Ser Gly Leu Gln Gly  
           50                  55                  60  
 Asp Gly Ala Gly Leu Pro Ala His Leu Gly Pro Leu Ser Cys Ile Cys  
   65                  70                  75                  80

Leu Pro Ser Leu Leu Cys Asp Leu Gly Glu Arg Gln Cys Pro Leu Trp  
85 90 95

Ala Val Arg Ser Thr Gln Cys Leu Ile Ala Gly Lys Lys Val Leu Gln  
100 105 110

Arg Leu Cys Pro  
115

<210> 1955  
<211> 116  
<212> PRT  
<213> Homo sapiens

<400> 1955  
Met Trp Trp Ala Leu Cys Ser Met Leu Pro Leu Leu Gly Cys Ala Cys  
1 5 10 15

Ser Ser Gly Cys Trp Gly Ser Gly Pro Thr Pro Leu Leu Ala Glu Pro  
20 25 30

Thr Phe Leu Cys Val Ser Ser Arg Pro His Asn Pro Leu Ser Phe Leu  
35 40 45

Ser Val Leu Pro Cys Ser Arg Gly Pro Gly Pro Ser Gly Leu Gln Gly  
50 55 60

Asp Gly Ala Gly Leu Pro Ala His Leu Gly Pro Leu Ser Cys Ile Cys  
65 70 75 80

Leu Pro Ser Leu Leu Cys Asp Leu Gly Glu Arg Gln Cys Pro Leu Trp  
85 90 95

Ala Val Arg Ser Thr Gln Cys Leu Ile Ala Gly Lys Lys Val Leu Gln  
100 105 110

Arg Leu Cys Pro  
115

<210> 1956  
<211> 82  
<212> PRT  
<213> Homo sapiens

<400> 1956  
Met Ala Ile Pro Pro Phe Ile Met Asn Thr Leu Glu Lys Lys Ala Phe  
1 5 10 15

Leu Lys Arg Phe Pro Trp Met Ser Ala Pro Ile Gln Val Gly Leu Val  
20 25 30

Gly Phe Cys Leu Val Phe Ala Thr Pro Leu Cys Cys Ala Leu Phe Pro  
35 40 45

Gln Lys Ser Ser Met Ser Val Thr Ser Leu Glu Ala Glu Leu Gln Ala  
50 55 60

Lys Ile Gln Glu Ser His Pro Glu Leu Arg Arg Val Tyr Phe Asn Lys  
65 70 75 80

Gly Leu

<210> 1957  
<211> 82  
<212> PRT  
<213> Homo sapiens

<400> 1957  
Met Ala Ile Pro Pro Phe Ile Met Asn Thr Leu Glu Lys Lys Ala Phe  
1 5 10 15

Leu Lys Arg Phe Pro Trp Met Ser Ala Pro Ile Gln Val Gly Leu Val  
20 25 30

Gly Phe Cys Leu Val Phe Ala Thr Pro Leu Cys Cys Ala Leu Phe Pro  
35 40 45

Gln Lys Ser Ser Met Ser Val Thr Ser Leu Glu Ala Glu Leu Gln Ala  
50 55 60

Lys Ile Gln Glu Ser His Pro Glu Leu Arg Arg Val Tyr Phe Asn Lys  
65 70 75 80

Gly Leu

<210> 1958  
<211> 18  
<212> PRT  
<213> Homo sapiens

<400> 1958  
Met Arg Phe Ser Glu Ala Trp Thr Ser Pro Trp Cys Met Thr Leu Leu  
1 5 10 15

Thr Cys

<210> 1959  
<211> 18  
<212> PRT  
<213> Homo sapiens

<400> 1959

Met Arg Phe Ser Glu Ala Trp Thr Ser Pro Trp Cys Met Thr Leu Leu  
1 5 10 15

Thr Cys

<210> 1960

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1960

Met Ser Met Ala Met Gly Ser Xaa Thr Leu Leu Leu Gly Trp Gly Pro  
1 5 10 15

Gly Pro Gly Trp Asp Cys Gly Val Met Arg Val Val Leu Cys Trp Leu  
20 25 30

Pro Gly Gly Asn Cys Gln Gly Glu Ser Ser Thr  
35 40

<210> 1961

<211> 79

<212> PRT

<213> Homo sapiens

<400> 1961

Ala Glu His His Gln Leu Ser Gln Val Leu Val Thr Cys Leu Gly Thr  
1 5 10 15

Cys Met Glu Pro Glu Pro Leu Thr Pro His Pro Arg His Tyr Leu Gly  
20 25 30

Asp Ala Gln Asp Lys Cys Ser Asn Asp Cys Met His Cys Leu Ser Ile  
35 40 45

Gly Gln His Glu Leu Pro Ser Tyr Ser Cys Gln Pro Gly Arg Lys Arg  
50 55 60

Leu Leu Pro His His Ser Gln Pro Ser Phe Pro Leu Ala Ser Thr  
65 70 75

<210> 1962

<211> 305

<212> PRT



<213> Homo sapiens

<400> 1962

Met	Pro	Ala	Asn	Phe	Thr	Glu	Gly	Ser	Phe	Asp	Ser	Ser	Gly	Thr	Gly	
1				5					10					15		
Gln	Thr	Leu	Asp	Ser	Ser	Pro	Val	Ala	Cys	Thr	Glu	Thr	Val	Thr	Phe	
			20					25					30			
Thr	Glu	Val	Val	Glu	Gly	Lys	Glu	Trp	Gly	Ser	Phe	Tyr	Tyr	Ser	Phe	
		35					40					45				
Lys	Thr	Glu	Gln	Leu	Ile	Thr	Leu	Trp	Val	Leu	Phe	Val	Phe	Thr	Ile	
	50					55					60					
Val	Gly	Asn	Ser	Val	Val	Leu	Phe	Ser	Thr	Trp	Arg	Arg	Lys	Lys	Lys	
65					70					75					80	
Ser	Arg	Met	Thr	Phe	Phe	Val	Thr	Gln	Leu	Ala	Ile	Thr	Glu	Lys	Gln	
				85					90					95		
Ala	Arg	Val	Leu	Ile	Val	Ile	Ala	Trp	Ser	Leu	Ser	Phe	Leu	Phe	Ser	
			100					105					110			
Ile	Pro	Thr	Leu	Ile	Ile	Phe	Gly	Lys	Arg	Thr	Leu	Ser	Asn	Gly	Glu	
		115					120					125				
Val	Gln	Cys	Trp	Ala	Leu	Trp	Pro	Asp	Asp	Ser	Tyr	Trp	Thr	Pro	Tyr	
	130					135					140					
Met	Thr	Ile	Val	Ala	Phe	Leu	Val	Tyr	Phe	Ile	Pro	Leu	Thr	Ile	Ile	
145					150					155					160	
Ser	Ile	Met	Tyr	Gly	Ile	Val	Ile	Arg	Thr	Ile	Trp	Ile	Lys	Ser	Lys	
				165					170					175		
Thr	Tyr	Glu	Thr	Val	Ile	Ser	Asn	Cys	Ser	Asp	Gly	Lys	Leu	Cys	Ser	
			180					185					190			
Ser	Tyr	Asn	Arg	Gly	Leu	Ile	Ser	Lys	Ala	Lys	Ile	Lys	Ala	Ile	Lys	
		195					200					205				
Tyr	Ser	Ile	Ile	Ile	Ile	Leu	Ala	Phe	Ile	Cys	Cys	Trp	Ser	Pro	Tyr	
	210					215					220					
Phe	Leu	Phe	Asp	Ile	Leu	Asp	Asn	Phe	Asn	Leu	Leu	Pro	Asp	Thr	Gln	
225					230					235					240	
Glu	Arg	Phe	Tyr	Ala	Ser	Val	Ile	Ile	Gln	Asn	Leu	Pro	Ala	Leu	Asn	
				245					250					255		
Ser	Ala	Ile	Asn	Pro	Leu	Ile	Tyr	Cys	Val	Phe	Ser	Ser	Ser	Ile	Ser	
			260					265					270			
Phe	Pro	Cys	Arg	Glu	Gln	Arg	Ser	Gln	Asp	Ser	Arg	Met	Thr	Phe	Arg	
		275					280					285				

Glu Arg Thr Glu Arg His Glu Met Gln Ile Leu Ser Lys Pro Glu Phe  
290 295 300

Ile  
305

<210> 1963  
<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 1963  
Met Ser Met Ala Met Gly Ser Ser Thr Leu Leu Leu Gly Trp Gly Pro  
1 5 10 15  
Gly Pro Gly Trp Asp Cys Gly Val Met Arg Val Val Leu Cys Trp Leu  
20 25 30  
Pro Gly Gly Asn Cys Gln Gly Glu Ser Ser Thr  
35 40

<210> 1964  
<211> 161  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (104)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1964  
Met Pro Thr Thr Leu Pro Ser Asp Leu Met Leu Leu Trp Leu Gly Leu  
1 5 10 15  
Pro Ser Leu Pro Ser Pro Val Glu Glu Glu Gly Arg Leu Val Lys Gly  
20 25 30  
Leu Arg Leu Thr Leu Ala Ala Pro Ala Ser Glu Val Leu Pro Asp Trp  
35 40 45  
Glu Asp Pro Pro Ser His Pro Thr Ala Trp Ala Gln Pro Arg Thr His  
50 55 60  
Gln Pro Asp Thr Pro Asn Ser Ile Lys Ser Gly Ile Tyr Ser Pro Cys  
65 70 75 80  
Gly Gly Ala Val Leu Arg Gly Ala Gly Ala Ile Val Leu Arg Lys Glu  
85 90 95  
Val Cys Pro Ser Val Arg Leu Xaa Gly Arg Pro Gly Pro Lys Trp Gly  
100 105 110

Arg Lys Arg Gly Thr Ala Arg Val Lys Ile Pro Ala Tyr Ser Gly Trp  
115 120 125

Glu Tyr Val Gln Gly Gly Gly Ala Gln Ala Gly Val Gly Ala Gly Gly  
130 135 140

Pro Ala Ala Ala Ala Pro Thr Arg Gly Pro Pro His Leu Gly Pro Tyr  
145 150 155 160

Leu

<210> 1965  
<211> 161  
<212> PRT  
<213> Homo sapiens

<400> 1965  
Met Pro Thr Thr Leu Pro Ser Asp Leu Met Leu Leu Trp Leu Gly Leu  
1 5 10 15

Pro Ser Leu Pro Ser Pro Val Glu Glu Glu Gly Arg Leu Val Lys Gly  
20 25 30

Leu Arg Leu Thr Leu Ala Ala Pro Ala Ser Glu Val Leu Pro Asp Trp  
35 40 45

Glu Asp Pro Pro Ser His Pro Thr Ala Trp Ala Gln Pro Arg Thr His  
50 55 60

Gln Pro Asp Thr Pro Asn Ser Ile Lys Ser Gly Ile Tyr Ser Pro Cys  
65 70 75 80

Gly Gly Ala Val Leu Arg Gly Ala Gly Ala Ile Val Leu Arg Lys Glu  
85 90 95

Val Cys Pro Ser Val Arg Leu Ser Gly Arg Pro Gly Pro Lys Trp Gly  
100 105 110

Arg Lys Arg Gly Thr Ala Arg Val Lys Ile Pro Ala Tyr Ser Gly Trp  
115 120 125

Glu Tyr Val Gln Gly Gly Gly Ala Gln Ala Gly Val Gly Ala Gly Gly  
130 135 140

Pro Ala Ala Ala Ala Pro Thr Arg Gly Pro Pro His Leu Gly Pro Tyr  
145 150 155 160

Leu

<210> 1966  
<211> 92

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (44)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1966  
Met Gly Pro Phe Ala Pro Thr Leu Leu Met Leu Leu Pro Pro Leu Leu  
1 5 10 15  
Met Leu Val Leu Tyr Gly Cys Trp Gln Ala Arg Gly Trp Ala Gly His  
20 25 30  
Gln Tyr Glu His His Arg Gly Pro Gly Glu Gln Xaa Ala Ala Tyr Phe  
35 40 45  
Gln Ala Met Arg Phe Asn Ala Asn Met Ser Phe His Ala Gln Met Val  
50 55 60  
Ile Asn Glu Gly Glu Ala Phe Arg Glu Gly Gln Arg Thr Ile Pro Ala  
65 70 75 80  
Val Glu Arg Pro Gly Asn Ala Leu Arg Gln Arg Ser  
85 90

<210> 1967  
<211> 92  
<212> PRT  
<213> Homo sapiens

<400> 1967  
Met Gly Pro Phe Ala Pro Thr Leu Leu Met Leu Leu Pro Pro Leu Leu  
1 5 10 15  
Met Leu Val Leu Tyr Gly Cys Trp Gln Ala Arg Gly Trp Ala Gly His  
20 25 30  
Gln Tyr Glu His His Arg Gly Pro Gly Glu Gln Ser Ala Ala Tyr Phe  
35 40 45  
Gln Ala Met Arg Phe Asn Ala Asn Met Ser Phe His Ala Gln Met Val  
50 55 60  
Ile Asn Glu Gly Glu Ala Phe Arg Glu Gly Gln Arg Thr Ile Pro Ala  
65 70 75 80  
Val Glu Arg Pro Gly Asn Ala Leu Arg Gln Arg Ser  
85 90

<210> 1968  
<211> 124

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1968  
Met Trp Pro Arg Leu Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser  
1 5 10 15  
Gly Trp Ala Xaa Phe Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe  
20 25 30  
Arg Leu Phe Pro Glu Thr Ala Pro Gly Ala Pro Gly Ser Ile Pro Ala  
35 40 45  
Pro Pro Ala Pro Gly Asp Glu Ala Ala Gly Ser Arg Val Glu Arg Leu  
50 55 60  
Gly Gln Ala Phe Arg Arg Arg Val Arg Leu Leu Arg Glu Leu Asn Glu  
65 70 75 80  
Arg Leu Glu Leu Ala Ser Trp Trp Met Ile Arg Pro Ala Trp Ala Lys  
85 90 95  
Ser Thr Ser Ala Ala Ser Ser Cys Ser Ser Ala Ser Cys Cys Pro Thr  
100 105 110  
Phe Pro Trp Trp Pro Arg Ala Pro Arg Gly His Ser  
115 120

<210> 1969  
<211> 230  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (79)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (165)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1969  
Met Trp Pro Arg Leu Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser

1		5		10		15									
Gly	Trp	Ala	Xaa	Phe	Gln	Gln	Met	Ser	Pro	Ser	Arg	Asn	Phe	Ser	Phe
		20						25					30		
Arg	Leu	Phe	Pro	Glu	Thr	Ala	Pro	Gly	Ala	Pro	Gly	Ser	Ile	Pro	Ala
		35					40					45			
Pro	Pro	Ala	Pro	Gly	Asp	Glu	Ala	Ala	Gly	Ser	Arg	Val	Glu	Arg	Leu
	50					55					60				
Gly	Gln	Ala	Phe	Arg	Arg	Arg	Val	Arg	Leu	Leu	Arg	Glu	Leu	Xaa	Glu
65					70				75						80
Arg	Leu	Glu	Leu	Val	Phe	Leu	Val	Asp	Asp	Ser	Ser	Ser	Val	Gly	Glu
				85					90					95	
Val	Asn	Phe	Arg	Ser	Glu	Leu	Met	Phe	Val	Arg	Lys	Leu	Leu	Ser	Asp
		100						105					110		
Phe	Pro	Val	Val	Pro	Thr	Ala	Thr	Arg	Val	Ala	Ile	Val	Thr	Phe	Ser
		115					120					125			
Ser	Lys	Asn	Tyr	Val	Val	Pro	Arg	Val	Asp	Tyr	Ile	Ser	Thr	Arg	Arg
	130					135					140				
Ala	Arg	Gln	His	Lys	Cys	Ala	Leu	Leu	Leu	Gln	Glu	Ile	Pro	Ala	Ile
145					150					155					160
Ser	Tyr	Arg	Gly	Xaa	Gly	Thr	Tyr	Thr	Lys	Gly	Ala	Phe	Gln	Gln	Ala
				165					170					175	
Ala	Gln	Ile	Leu	Leu	His	Ala	Arg	Glu	Asn	Ser	Thr	Lys	Val	Val	Phe
			180					185					190		
Leu	Ile	Thr	Asp	Gly	Tyr	Ser	Lys	Gly	Glu	Thr	Leu	Ala	Gln	Leu	Gln
		195					200					205			
Arg	His	Cys	Glu	Ile	Gln	Glu	Trp	Arg	Ser	Ser	Leu	Leu	Ala	Tyr	Gly
	210					215					220				
Lys	Gly	Thr	Phe	Glu	Ser										
225					230										

<210> 1970  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 1970  
 Met Trp Pro Arg Leu Ala Phe Cys Cys Trp Gly Leu Ala Leu Val Ser  
 1 5 10 15  
 Gly Trp Ala Thr Phe Gln Gln Met Ser Pro Ser Arg Asn Phe Ser Phe  
 20 25 30

Arg Leu Phe Pro Glu Thr Ala Pro Gly Ala Pro Gly Ser Ile Pro Ala  
35 40 45

Pro Pro Ala Pro Gly Asp Glu Ala Ala Gly Ser Arg Val Glu Arg Leu  
50 55 60

Gly Gln Ala Phe Arg Arg Arg Val Arg Leu Leu Arg Glu Leu Ser Arg  
65 70 75 80

Ala Pro Gly Ala Cys Leu Pro Gly Gly  
85

<210> 1971  
<211> 99  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (60)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1971  
Met His Val Lys Trp Xaa Leu Ile Met Phe Leu Ile Cys Ile Ser Leu  
1 5 10 15

Glu Ser Asn Val Asn Gly Tyr Leu Phe Met Cys Leu Leu Phe Gly Tyr  
20 25 30

Leu Leu Trp Arg Asn Val Tyr Pro Asn Leu Leu Pro Ile Leu Asn Phe  
35 40 45

Asn Ser Cys Leu Leu Asp Leu Glu Leu Gln Glu Xaa Phe Val Tyr Ser  
50 55 60

Lys Tyr Gln Thr Phe Asn Lys Tyr Met Ile Cys Lys Cys Phe Phe Ser  
65 70 75 80

His Ala Val Cys Tyr Ser Phe Thr Phe Leu Ile Val Phe Phe Glu Ala  
85 90 95

Gln Thr Phe

<210> 1972  
<211> 99  
<212> PRT

<213> Homo sapiens

<400> 1972

Met	His	Val	Lys	Trp	Tyr	Leu	Ile	Met	Phe	Leu	Ile	Cys	Ile	Ser	Leu	
1				5					10					15		
Glu	Ser	Asn	Val	Asn	Gly	Tyr	Leu	Phe	Met	Cys	Leu	Leu	Phe	Gly	Tyr	
			20					25					30			
Leu	Leu	Trp	Arg	Asn	Val	Tyr	Pro	Asn	Leu	Leu	Pro	Ile	Leu	Asn	Phe	
		35					40					45				
Asn	Ser	Cys	Leu	Leu	Asp	Leu	Glu	Leu	Gln	Glu	Phe	Phe	Val	Tyr	Ser	
	50					55					60					
Lys	Tyr	Gln	Thr	Phe	Asn	Lys	Tyr	Met	Ile	Cys	Lys	Cys	Phe	Phe	Ser	
65					70					75					80	
His	Ala	Val	Cys	Tyr	Ser	Phe	Thr	Phe	Leu	Ile	Val	Phe	Phe	Glu	Ala	
				85					90					95		

Gln Thr Phe

<210> 1973

<211> 153

<212> PRT

<213> Homo sapiens

<400> 1973

Met	His	Thr	His	Thr	Leu	Ser	Leu	Val	Ser	Leu	Ser	Leu	Ser	His	Ser	
1				5					10					15		
Phe	Leu	Leu	Ser	Ser	Gln	Val	Thr	Cys	Thr	Leu	Gly	Phe	Leu	Val	Glu	
			20					25					30			
Ala	His	Leu	Pro	Pro	Leu	Arg	Gly	Val	Pro	Asp	Cys	Ile	His	His	Asn	
		35					40					45				
Pro	Lys	Thr	Arg	Val	Gly	Gly	Asn	Trp	Arg	Glu	Gln	Asn	Thr	Asp	Leu	
	50					55					60					
Ile	Leu	Val	Ser	Leu	Leu	Glu	Thr	Ser	Ser	Pro	Lys	Ala	Arg	Ser	Leu	
65					70					75					80	
Lys	Thr	Asn	Leu	Leu	Lys	Thr	Cys	Leu	Leu	Lys	Val	Asn	Asp	Leu	Met	
			85						90					95		
Thr	Asn	Leu	Pro	Lys	Ala	Gln	Phe	Leu	Phe	Trp	Cys	Val	Tyr	Ile	His	
		100						105					110			
Leu	Gly	Val	Leu	Phe	Phe	Phe	Val	Met	Leu	Trp	Ile	Phe	Gln	Gly	Phe	
		115					120					125				
Ile	Ser	Ile	His	Pro	Arg	Val	Leu	Leu	Ser	Tyr	Tyr	Gln	Gln	His	Lys	



130	135	140
Phe Ile Lys Phe Ala Ala Leu Cys Lys		
145	150	

  

<210> 1974  
 <211> 153  
 <212> PRT  
 <213> Homo sapiens

  

<400> 1974  
 Met His Thr His Thr Leu Ser Leu Val Ser Leu Ser Leu Ser His Ser  
 1 5 10 15  
 Phe Leu Leu Ser Ser Gln Val Thr Cys Thr Leu Gly Phe Leu Val Glu  
 20 25 30  
 Ala His Leu Pro Pro Leu Arg Gly Val Pro Asp Cys Ile His His Asn  
 35 40 45  
 Pro Lys Thr Arg Val Gly Gly Asn Trp Arg Glu Gln Asn Thr Asp Leu  
 50 55 60  
 Ile Leu Val Ser Leu Leu Glu Thr Ser Ser Pro Lys Ala Arg Ser Leu  
 65 70 75 80  
 Lys Thr Asn Leu Leu Lys Thr Cys Leu Leu Lys Val Asn Asp Leu Met  
 85 90 95  
 Thr Asn Leu Pro Lys Ala Gln Phe Leu Phe Trp Cys Val Tyr Ile His  
 100 105 110  
 Leu Gly Val Leu Phe Phe Phe Val Met Leu Trp Ile Phe Gln Gly Phe  
 115 120 125  
 Ile Ser Ile His Pro Arg Val Leu Leu Ser Tyr Tyr Gln Gln His Lys  
 130 135 140  
 Phe Ile Lys Phe Ala Ala Leu Cys Lys  
 145 150

<210> 1975  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (99)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE

<222> (106)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (121)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (123)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (127)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1975  
Met Gln Ala Gly Lys Gly Leu Ala Gln Val Trp Gly Val Ala Thr Phe  
1 5 10 15  
Val Gln Leu Cys Ala His Thr Val Phe Leu Ser Met Tyr Leu Cys Met  
20 25 30  
His Ile Cys Phe Ala Ala Ile Ser Ser Lys Val Arg Val Arg Val Asn  
35 40 45  
Ala Pro Phe Cys Val Ser Val Pro Leu Lys Val His Ala Pro Leu Ser  
50 55 60  
Leu Gly Ile Lys Val Gly Leu Gln Gly Gln Lys His Gly Arg Ala Thr  
65 70 75 80  
Gly Glu Ala Gly Met Pro Gln Gly Glu Met Leu Gly Lys Gln Glu Pro  
85 90 95  
Gln Thr Xaa Ser Ser Pro Lys Pro Thr Xaa Arg Arg Glu Val Ser Arg  
100 105 110  
Asn Glu Leu Asn Pro Val Ile Pro Xaa Ala Xaa Asn Pro Phe Xaa Lys  
115 120 125

Lys

<210> 1976  
<211> 467  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (151)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (160)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1976

Leu Gly Pro Ala Gly Leu Arg Arg Arg Thr Lys Arg Arg Lys Arg Gly  
1 5 10 15

Asp Asn Ser Thr Asp Thr Thr Gln Gly Asp Pro Leu Ser Ile His His  
20 25 30

Tyr Phe His Gly Tyr Leu Ala Gly Phe Ser Val Arg Ser Gly Arg Leu  
35 40 45

Glu Ser Arg Glu Val Ile Glu Cys Leu Tyr Ala Cys Arg Glu Gly Leu  
50 55 60

Asp Tyr Arg Asp Phe Glu Ser Leu Gly Lys Gly Met Lys Val His Val  
65 70 75 80

Asn Pro Ser Gln Ser Leu Leu Thr Leu Glu Gly Asp Asp Val Glu Thr  
85 90 95

Phe Asn His Ala Leu Gln His Val Ala Tyr Met Asn Thr Leu Arg Phe  
100 105 110

Ala Thr Pro Gly Val Arg Pro Leu Arg Leu Thr Thr Ala Val Lys Cys  
115 120 125

Phe Ser Glu Glu Ser Cys Val Ser Ile Pro Glu Val Glu Gly Tyr Val  
130 135 140

Val Val Leu Gln Pro Asp Xaa Pro Gln Ile Leu Leu Ser Gly Thr Xaa  
145 150 155 160

His Phe Ala Arg Pro Ala Val Asp Phe Glu Gly Thr Asn Gly Val Pro  
165 170 175

Leu Phe Pro Asp Leu Gln Ile Thr Cys Ser Ile Ser His Gln Val Glu  
180 185 190

Ala Lys Lys Asp Glu Ser Trp Gln Gly Thr Val Thr Asp Thr Arg Met  
195 200 205

Ser Asp Glu Ile Val His Asn Leu Asp Gly Cys Glu Ile Ser Leu Val  
210 215 220

Gly Asp Asp Leu Asp Pro Glu Arg Glu Ser Leu Leu Leu Asp Thr Thr  
225 230 235 240

Ser Leu Gln Gln Arg Gly Leu Glu Leu Thr Asn Thr Ser Ala Tyr Leu  
245 250 255

Thr Ile Ala Gly Val Glu Ser Ile Thr Val Tyr Glu Glu Ile Leu Arg  
260 265 270

Gln Ala Arg Tyr Arg Leu Arg His Gly Ala Ala Leu Tyr Thr Arg Lys  
275 280 285

Phe Arg Leu Ser Cys Ser Glu Met Asn Gly Arg Tyr Ser Ser Asn Glu  
290 295 300

Phe Ile Val Glu Val Asn Val Leu His Ser Met Asn Arg Val Ala His  
305 310 315 320

Pro Ser His Val Leu Ser Ser Gln Gln Phe Leu His Arg Gly His Gln  
325 330 335

Pro Pro Pro Glu Met Ala Gly His Ser Leu Ala Ser Ser His Arg Asn  
340 345 350

Ser Met Ile Pro Ser Ala Ala Thr Leu Ile Ile Val Val Cys Val Gly  
355 360 365

Phe Leu Val Leu Met Val Val Leu Gly Leu Val Arg Ile His Ser Leu  
370 375 380

His Arg Arg Val Ser Gly Ala Gly Gly Pro Pro Gly Ala Ser Ser Asp  
385 390 395 400

Pro Lys Asp Pro Asp Leu Phe Trp Asp Asp Ser Ala Leu Thr Ile Ile  
405 410 415

Val Asn Pro Met Glu Ser Tyr Gln Asn Arg Gln Ser Cys Val Thr Gly  
420 425 430

Ala Val Gly Gly Gln Gln Glu Asp Glu Asp Ser Ser Asp Ser Glu Val  
435 440 445

Ala Asp Ser Pro Ser Ser Asp Glu Arg Arg Ile Ile Glu Thr Pro Pro  
450 455 460

His Arg Tyr  
465

<210> 1977  
<211> 231  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (92)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (113)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1977

Met Gln Ala Gly Lys Gly Leu Ala Gln Val Trp Gly Val Ala Thr Phe  
1 5 10 15

Val Gln Leu Cys Ala His Thr Val Phe Leu Ser Met Tyr Leu Cys Met  
20 25 30

His Ile Cys Phe Ala Ala Ile Ser Ser Lys Val Arg Val Arg Val Asn  
35 40 45

Ala Pro Phe Cys Val Ser Val Pro Leu Lys Val His Ala Pro Leu Ser  
50 55 60

Leu Gly Ile Lys Val Gly Leu Gln Gly Gln Lys His Gly Arg Ala Thr  
65 70 75 80

Gly Glu Ala Gly Met Pro Gln Gly Glu Met Leu Xaa Lys Gln Glu Pro  
85 90 95

Gln Thr Ser Ser Ser Pro Lys Pro Thr Arg Arg Arg Glu Val Ser Arg  
100 105 110

Xaa Glu Leu Xaa Pro Val Ile Pro Ser Ala Ala Thr Leu Ile Ile Val  
115 120 125

Val Cys Val Gly Phe Leu Val Leu Met Val Val Leu Gly Leu Val Arg  
130 135 140

Ile His Ser Leu His Arg Arg Val Ser Gly Ala Gly Gly Pro Pro Gly  
145 150 155 160

Ala Ser Ser Asp Pro Lys Asp Pro Asp Leu Phe Trp Asp Asp Ser Ala  
165 170 175

Leu Thr Ile Ile Val Asn Pro Met Glu Ser Tyr Gln Asn Arg Gln Ser  
180 185 190

Cys Val Thr Gly Ala Val Gly Gly Gln Gln Glu Asp Glu Asp Ser Ser  
195 200 205

Asp Ser Glu Val Ala Asp Ser Pro Ser Ser Asp Glu Arg Arg Ile Ile  
210 215 220

Glu Thr Pro Pro His Arg Tyr  
225 230

<210> 1978

<211> 145

<212> PRT

<213> Homo sapiens

<400> 1978

Pro Phe Thr Phe Gln His Asp Cys Glu Ala Ser Pro Ala Thr Trp Asn  
1 5 10 15

Tyr Leu Arg Arg Met Thr Ala Gly Phe Met Gly Met Ala Val Ala Ile  
20 25 30

Ile Leu Phe Gly Trp Ile Ile Gly Val Leu Gly Cys Cys Trp Asp Arg  
35 40 45

Gly Leu Met Gln Tyr Val Ala Gly Leu Leu Phe Leu Met Gly Gly Thr  
50 55 60

Phe Cys Ile Ile Ser Leu Cys Thr Cys Val Ala Gly Ile Asn Phe Glu  
65 70 75 80

Leu Ser Arg Tyr Pro Arg Tyr Leu Tyr Gly Leu Pro Asp Asp Ile Ser  
85 90 95

His Gly Tyr Gly Trp Ser Met Phe Cys Ala Trp Gly Gly Leu Gly Leu  
100 105 110

Thr Leu Ile Ser Gly Phe Phe Cys Thr Leu Ala Pro Ser Val Gln Pro  
115 120 125

Val Pro Arg Thr Asn Tyr Pro Lys Ser Arg Pro Glu Asn Gly Thr Val  
130 135 140

Cys  
145

<210> 1979

<211> 125

<212> PRT

<213> Homo sapiens

<400> 1979

Met Thr Ala Gly Phe Met Gly Met Ala Val Ala Ile Ile Leu Phe Gly  
1 5 10 15

Trp Ile Ile Gly Val Leu Gly Cys Cys Trp Asp Arg Gly Leu Met Gln  
20 25 30

Tyr Val Ala Gly Leu Leu Phe Leu Met Gly Gly Thr Phe Cys Ile Ile  
35 40 45

Ser Leu Cys Thr Cys Val Ala Gly Ile Asn Phe Glu Leu Ser Arg Tyr  
50 55 60

Pro Arg Tyr Leu Tyr Gly Leu Pro Asp Asp Ile Ser His Gly Tyr Gly  
65 70 75 80

Trp Ser Met Phe Cys Ala Trp Gly Gly Leu Gly Leu Thr Leu Ile Ser  
85 90 95

Gly Phe Phe Cys Thr Leu Ala Pro Ser Val Gln Pro Val Pro Arg Thr  
100 105 110

Asn Tyr Pro Lys Ser Arg Pro Glu Asn Gly Thr Val Cys  
115 120 125

<210> 1980  
<211> 146  
<212> PRT  
<213> Homo sapiens

<400> 1980  
Val Pro Phe Thr Phe Gln His Asp Cys Glu Ala Ser Pro Ala Thr Trp  
1 5 10 15

Asn Tyr Leu Arg Arg Met Thr Ala Gly Phe Met Gly Met Ala Val Ala  
20 25 30

Ile Ile Leu Phe Gly Trp Ile Ile Gly Val Leu Gly Cys Cys Trp Asp  
35 40 45

Arg Gly Leu Met Gln Tyr Val Ala Gly Leu Leu Phe Leu Met Gly Gly  
50 55 60

Thr Phe Cys Ile Ile Ser Leu Cys Thr Cys Val Ala Gly Ile Asn Phe  
65 70 75 80

Glu Leu Ser Arg Tyr Pro Arg Tyr Leu Tyr Gly Leu Pro Asp Asp Ile  
85 90 95

Ser His Gly Tyr Gly Trp Ser Met Phe Cys Ala Trp Gly Gly Leu Gly  
100 105 110

Leu Thr Leu Ile Ser Gly Phe Phe Cys Thr Leu Ala Pro Ser Val Gln  
115 120 125

Pro Val Pro Arg Thr Asn Tyr Pro Lys Ser Arg Pro Glu Asn Gly Thr  
130 135 140

Val Cys  
145

<210> 1981  
<211> 109  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (40)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1981

Met	Cys	Ser	Met	Phe	Cys	Glu	Arg	Leu	Leu	Leu	Leu	Cys	His	Cys	Gln
1				5				10						15	
Leu	Ser	Ile	Ala	Val	Phe	Met	Tyr	Trp	Val	His	Val	Thr	His	Leu	Ser
			20					25					30		
Ser	Val	Arg	Arg	Ile	Asn	Tyr	Xaa	Phe	Leu	Ile	Tyr	Lys	Lys	Gly	Met
		35					40					45			
Gln	Leu	Pro	Ser	Trp	Tyr	Pro	Ser	Ser	Cys	Pro	Ala	Ser	Arg	Lys	Asn
	50					55					60				
Gln	Val	Thr	Gly	Met	Asn	Gly	Arg	Val	Val	Asn	Val	Glu	Asp	Phe	Ile
65					70					75					80
Glu	Gln	Trp	Lys	Trp	Leu	Ser	Val	Gly	Trp	Gly	Ala	Arg	Lys	Gly	Leu
				85					90					95	
Glu	Trp	Glu	Asp	Asp	Leu	Tyr	Leu	Glu	Phe	Gly	His	Pro			
			100					105							

<210> 1982

<211> 109

<212> PRT

<213> Homo sapiens

<400> 1982

Met	Cys	Ser	Met	Phe	Cys	Glu	Arg	Leu	Leu	Leu	Leu	Cys	His	Cys	Gln
1				5				10						15	
Leu	Ser	Ile	Ala	Val	Phe	Met	Tyr	Trp	Val	His	Val	Thr	His	Leu	Ser
			20					25					30		
Ser	Val	Arg	Arg	Ile	Asn	Tyr	Val	Phe	Leu	Ile	Tyr	Lys	Lys	Gly	Met
		35					40					45			
Gln	Leu	Pro	Ser	Trp	Tyr	Pro	Ser	Ser	Cys	Pro	Ala	Ser	Arg	Lys	Asn
	50					55					60				
Gln	Val	Thr	Gly	Met	Asn	Gly	Arg	Val	Val	Asn	Val	Glu	Asp	Phe	Ile
65					70					75					80
Glu	Gln	Trp	Lys	Trp	Leu	Ser	Val	Gly	Trp	Gly	Ala	Arg	Lys	Gly	Leu
				85					90					95	
Glu	Trp	Glu	Asp	Asp	Leu	Tyr	Leu	Glu	Phe	Gly	His	Pro			
			100					105							

<210> 1983

<211> 109

<212> PRT

<213> Homo sapiens



<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1983

Met Cys Ser Met Phe Cys Glu Arg Leu Leu Leu Leu Cys His Cys Gln  
1 5 10 15

Leu Ser Ile Ala Val Phe Met Tyr Trp Val His Val Thr His Leu Ser  
20 25 30

Ser Val Arg Arg Ile Asn Tyr Xaa Phe Leu Ile Tyr Lys Lys Gly Met  
35 40 45

Gln Leu Pro Ser Trp Tyr Pro Ser Ser Cys Pro Ala Ser Arg Lys Asn  
50 55 60

Gln Val Thr Gly Met Asn Gly Arg Val Val Asn Val Glu Asp Phe Ile  
65 70 75 80

Glu Gln Trp Lys Trp Leu Ser Val Gly Trp Gly Ala Arg Lys Gly Leu  
85 90 95

Glu Trp Glu Asp Asp Leu Tyr Leu Glu Phe Gly His Pro  
100 105

<210> 1984

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1984

Gly Ala Cys Arg Gly Ser Ser Glu Pro Gly Ala Thr Pro Arg Pro Asp  
1 5 10 15

Gly Glu Pro Arg Pro Leu Pro Gly Leu His Cys Ala Xaa Gly Met Pro  
20 25 30



<210> 1986  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 1986  
Pro Ala Ser Gln Lys Ala Val Ser Ala Trp Arg Cys Pro Ala His Val  
1 5 10 15

<210> 1987  
<211> 130  
<212> PRT  
<213> Homo sapiens

<400> 1987  
Met Lys Lys Phe Ser Tyr Ala Phe Leu Tyr Phe Pro Ser Leu Asn Phe  
1 5 10 15

Thr Val Ser Thr Trp Leu Cys Thr Ala Leu Phe Leu Leu His Ser His  
20 25 30

His Leu Leu Ala Cys Cys Gly Ser Thr Phe Ala Gln Val Cys Leu Val  
35 40 45

Ser Glu Ser Met Ser Pro Phe Leu Gly Arg Leu Cys Arg Thr Ser Val  
50 55 60

Pro Cys Ala Gly Ala Thr Ala Phe Pro Ala Asp Ser Asp Arg His Cys  
65 70 75 80

Asn Gly Phe Pro Ala Gly Ala Glu Val Thr Asn Arg Pro Ser Pro Trp  
85 90 95

Arg Pro Leu Val Leu Leu Ile Pro Leu Arg Leu Gly Leu Thr Asp Ile  
100 105 110

Asn Glu Ala Tyr Val Glu Thr Leu Lys Val Gly Pro Ala Val Arg Arg  
115 120 125

Leu Pro  
130

<210> 1988  
<211> 202  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (181)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (200)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1988

Met	Ala	Leu	Ser	Gly	Gly	Leu	Arg	Cys	Cys	Arg	Arg	Val	Leu	Ser	Trp
1				5				10						15	

Val	Pro	Val	Leu	Val	Ile	Val	Leu	Val	Val	Leu	Trp	Ser	Tyr	Tyr	Ala
			20					25					30		

Tyr	Val	Phe	Glu	Leu	Cys	Leu	Val	Thr	Val	Leu	Ser	Pro	Ala	Glu	Lys
		35					40					45			

Val	Ile	Tyr	Leu	Ile	Leu	Tyr	His	Ala	Ile	Phe	Val	Phe	Phe	Thr	Trp
	50					55					60				

Thr	Tyr	Trp	Lys	Ser	Ile	Phe	Thr	Leu	Pro	Gln	Gln	Pro	Asn	Gln	Lys
65					70					75					80

Phe	His	Leu	Ser	Tyr	Thr	Asp	Lys	Glu	Arg	Tyr	Glu	Asn	Glu	Glu	Arg
				85					90					95	

Pro	Glu	Val	Gln	Lys	Gln	Met	Leu	Val	Asp	Met	Ala	Lys	Lys	Leu	Pro
			100					105					110		

Val	Tyr	Thr	Arg	Thr	Gly	Ser	Gly	Ala	Val	Arg	Phe	Cys	Asp	Arg	Cys
		115					120					125			

His	Leu	Ile	Lys	Pro	Asp	Arg	Cys	His	His	Cys	Ser	Val	Cys	Ala	Met
	130					135					140				

Cys	Val	Leu	Lys	Met	Asp	His	His	Cys	Pro	Trp	Val	Asn	Asn	Cys	Ile
145					150					155					160

Gly	Phe	Ser	Asn	Tyr	Lys	Phe	Phe	Leu	Gln	Phe	Leu	Ala	Tyr	Ser	Xaa
				165					170					175	

Leu	Tyr	Cys	Leu	Xaa	Ile	Ala	Thr	Thr	Val	Phe	Ser	Tyr	Phe	Ile	Lys
			180					185					190		

Tyr	Trp	Xaa	Gly	Glu	Leu	Pro	Xaa	Val	Ala
		195					200		

<210> 1989  
<211> 96  
<212> PRT  
<213> Homo sapiens

<400> 1989  
Lys Pro Asn Gly Lys Asn Ile Ser Phe His Ser Ser Tyr Gln Val Lys  
1 5 10 15  
Gly Asn Ser Glu Asn Phe Leu Arg Val Phe Asn Ser Pro Thr Lys Ile  
20 25 30  
Ile Asn His Ile Tyr Arg Ala Phe Leu Val Leu Lys Gly Ile Lys Leu  
35 40 45  
His Leu Leu Leu Val Cys Val Cys Ile Cys Glu His Val Gln His Ile  
50 55 60  
Tyr Thr Lys Phe Cys Tyr Ser Val Lys Ile Arg Ala Lys Asn Leu Lys  
65 70 75 80  
Pro Leu Phe Asn Tyr Ala Phe Pro Leu Asn Ser Asn Leu Asn Ile Cys  
85 90 95

<210> 1990  
<211> 331  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (176)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1990  
Met Ala Leu Ser Gly Gly Leu Arg Cys Cys Arg Arg Val Leu Ser Trp  
1 5 10 15  
Val Pro Val Leu Val Ile Val Leu Val Val Leu Trp Ser Tyr Tyr Ala  
20 25 30  
Tyr Val Phe Glu Leu Cys Leu Val Thr Val Leu Ser Pro Ala Glu Lys  
35 40 45  
Val Ile Tyr Leu Ile Leu Tyr His Ala Ile Phe Val Phe Phe Thr Trp  
50 55 60  
Thr Tyr Trp Lys Ser Ile Phe Thr Leu Pro Gln Gln Pro Asn Gln Lys  
65 70 75 80

Phe	His	Leu	Ser	Tyr	Thr	Asp	Lys	Glu	Arg	Tyr	Glu	Asn	Glu	Glu	Arg	85	90	95	
Pro	Glu	Val	Gln	Lys	Gln	Met	Leu	Val	Asp	Met	Ala	Lys	Lys	Leu	Pro	100	105	110	
Val	Tyr	Thr	Arg	Thr	Gly	Ser	Gly	Ala	Val	Arg	Phe	Cys	Asp	Arg	Cys	115	120	125	
His	Leu	Ile	Lys	Pro	Asp	Arg	Cys	His	His	Cys	Ser	Val	Cys	Ala	Met	130	135	140	
Cys	Val	Leu	Lys	Met	Asp	His	His	Cys	Pro	Trp	Val	Asn	Asn	Cys	Ile	145	150	155	160
Gly	Phe	Ser	Asn	Tyr	Lys	Phe	Phe	Leu	Gln	Phe	Leu	Ala	Tyr	Ser	Xaa	165	170	175	
Leu	Tyr	Cys	Leu	Tyr	Ile	Ala	Thr	Thr	Val	Phe	Ser	Tyr	Phe	Ile	Lys	180	185	190	
Tyr	Trp	Arg	Gly	Glu	Leu	Pro	Ser	Val	Arg	Ser	Lys	Phe	His	Val	Leu	195	200	205	
Phe	Leu	Leu	Phe	Val	Ala	Cys	Met	Phe	Phe	Val	Ser	Leu	Val	Ile	Leu	210	215	220	
Phe	Gly	Tyr	His	Cys	Trp	Leu	Val	Ser	Arg	Asn	Lys	Thr	Thr	Leu	Glu	225	230	235	240
Ala	Phe	Cys	Thr	Pro	Val	Phe	Thr	Ser	Gly	Pro	Glu	Lys	Asn	Gly	Phe	245	250	255	
Asn	Leu	Gly	Phe	Ile	Lys	Asn	Ile	Gln	Gln	Val	Phe	Gly	Asp	Lys	Lys	260	265	270	
Lys	Phe	Trp	Leu	Ile	Pro	Ile	Gly	Ser	Ser	Pro	Gly	Asp	Gly	His	Ser	275	280	285	
Phe	Pro	Met	Arg	Ser	Met	Asn	Glu	Ser	Gln	Asn	Pro	Leu	Leu	Ala	Asn	290	295	300	
Glu	Glu	Thr	Trp	Glu	Asp	Asn	Glu	Asp	Asp	Asn	Gln	Asp	Tyr	Pro	Glu	305	310	315	320
Gly	Ser	Ser	Ser	Leu	Ala	Val	Glu	Thr	Glu	Thr						325	330		

<210> 1991  
 <211> 235  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

<222> (171)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (205)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (210)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (221)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1991  
Met Trp Gly Leu Leu Leu Ala Leu Ala Ala Phe Ala Pro Ala Val Gly  
1 5 10 15  
Pro Ala Leu Gly Ala Pro Arg Asn Ser Val Leu Gly Leu Ala Gln Pro  
20 25 30  
Gly Thr Thr Lys Val Pro Gly Ser Thr Pro Ala Leu His Ser Ser Pro  
35 40 45  
Ala Gln Pro Pro Ala Glu Thr Ala Asn Gly Thr Ser Glu Gln His Val  
50 55 60  
Arg Ile Arg Val Ile Lys Lys Lys Lys Val Ile Met Lys Lys Arg Lys  
65 70 75 80  
Lys Leu Thr Leu Thr Arg Pro Thr Pro Leu Val Thr Ala Gly Pro Leu  
85 90 95  
Val Thr Pro Thr Pro Ala Gly Thr Leu Asp Pro Ala Glu Lys Gln Glu  
100 105 110  
Thr Gly Cys Pro Pro Leu Gly Leu Glu Ser Leu Arg Val Ser Asp Ser  
115 120 125  
Arg Leu Glu Ala Ser Ser Ser Gln Ser Phe Gly Leu Gly Pro His Arg  
130 135 140  
Gly Arg Leu Asn Ile Gln Ser Gly Leu Glu Asp Gly Asp Leu Tyr Asp  
145 150 155 160  
Gly Ala Trp Cys Ala Glu Glu Gln Asp Ala Xaa Pro Trp Phe Gln Val  
165 170 175  
Asp Ala Gly His Pro Thr Arg Phe Leu Gly Gly Ile Thr Gln Gly Lys  
180 185 190  
Glu Leu Leu Ser Gly Gly Glu Gly Arg Leu Thr Leu Xaa Gln Glu Val  
195 200 205

Gln Xaa Gly Leu Gly Leu Gly Ser Pro Gly Gly Thr Xaa Asp Leu Ser  
210 215 220

Ser Pro Phe Leu Ala Gly Met Met Gly Ser His  
225 230 235

<210> 1992  
<211> 197  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (169)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (187)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (194)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1992  
Met Trp Gly Leu Leu Leu Ala Leu Ala Ala Phe Ala Pro Ala Val Gly  
1 5 10 15

Pro Ala Leu Gly Ala Pro Arg Asn Ser Val Leu Gly Leu Ala Gln Pro  
20 25 30

Gly Thr Thr Lys Val Pro Gly Ser Thr Pro Ala Leu His Ser Ser Pro  
35 40 45

Ala Gln Pro Pro Ala Glu Thr Ala Asn Gly Thr Ser Glu Gln His Val  
50 55 60

Arg Ile Arg Val Ile Lys Lys Lys Lys Val Ile Met Lys Lys Arg Lys  
65 70 75 80

Lys Leu Thr Leu Thr Arg Pro Thr Pro Leu Val Thr Ala Gly Pro Leu  
85 90 95

Val Thr Pro Thr Pro Ala Gly Thr Leu Asp Pro Ala Glu Lys Gln Glu  
100 105 110

Thr Gly Cys Pro Pro Leu Gly Leu Glu Ser Leu Arg Val Ser Asp Ser  
115 120 125

Arg Leu Glu Ala Ser Ser Ser Gln Ser Phe Gly Leu Gly Pro His Arg  
130 135 140



Gly Arg Leu Asn Ile Gln Ser Gly Leu Glu Asp Gly Asp Leu Tyr Asp  
145 150 155 160

Gly Ala Trp Cys Ala Glu Glu Gln Xaa Ala Asp Pro Trp Phe Gln Val  
165 170 175

Asp Ala Gly His Pro Thr Arg Phe Ser Gly Xaa Ile Thr Gln Gly Arg  
180 185 190

Asn Xaa Val Trp Arg  
195

<210> 1993  
<211> 197  
<212> PRT  
<213> Homo sapiens

<400> 1993

Met Trp Gly Leu Leu Leu Ala Leu Ala Ala Phe Ala Pro Ala Val Gly  
1 5 10 15

Pro Ala Leu Gly Ala Pro Arg Asn Ser Val Leu Gly Leu Ala Gln Pro  
20 25 30

Gly Thr Thr Lys Val Pro Gly Ser Thr Pro Ala Leu His Ser Ser Pro  
35 40 45

Ala Gln Pro Pro Ala Glu Thr Ala Asn Gly Thr Ser Glu Gln His Val  
50 55 60

Arg Ile Arg Val Ile Lys Lys Lys Lys Val Ile Met Lys Lys Arg Lys  
65 70 75 80

Lys Leu Thr Leu Thr Arg Pro Thr Pro Leu Val Thr Ala Gly Pro Leu  
85 90 95

Val Thr Pro Thr Pro Ala Gly Thr Leu Asp Pro Ala Glu Lys Gln Glu  
100 105 110

Thr Gly Cys Pro Pro Leu Gly Leu Glu Ser Leu Arg Val Ser Asp Ser  
115 120 125

Arg Leu Glu Ala Ser Ser Ser Gln Ser Phe Gly Leu Gly Pro His Arg  
130 135 140

Gly Arg Leu Asn Ile Gln Ser Gly Leu Glu Asp Gly Asp Leu Tyr Asp  
145 150 155 160

Gly Ala Trp Cys Ala Glu Glu Gln Asp Ala Asp Pro Trp Phe Gln Val  
165 170 175

Asp Ala Gly His Pro Thr Arg Phe Ser Gly Val Ile Thr Gln Gly Arg  
180 185 190

Asn Ser Val Trp Arg

<210> 1994  
 <211> 241  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (229)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (230)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (236)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 1994  
 Met Ala Leu Arg Leu Leu Arg Arg Ala Ala Arg Gly Ala Ala Ala Ala  
   1                  5                  10                  15  
 Ala Leu Leu Arg Leu Lys Ala Ser Leu Ala Ala Asp Ile Pro Arg Leu  
                   20                  25                  30  
 Gly Tyr Ser Ser Ser Ser His His Lys Tyr Ile Pro Arg Arg Ala Val  
                   35                  40                  45  
 Leu Tyr Val Pro Gly Asn Asp Glu Lys Lys Ile Lys Lys Ile Pro Ser  
                   50                  55                  60  
 Leu Asn Val Asp Cys Ala Val Leu Asp Cys Glu Asp Gly Val Ala Ala  
   65                  70                  75                  80  
 Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu Glu Asp  
                   85                  90                  95  
 Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser Val Ser  
                   100                  105                  110  
 Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser Arg Val  
                   115                  120                  125  
 Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu Glu Ile  
                   130                  135                  140  
 Gln Trp Phe Ala Asp Lys Phe Ser Phe His Leu Lys Gly Arg Lys Leu  
   145                  150                  155                  160  
 Glu Gln Pro Met Asn Leu Ile Pro Phe Val Glu Thr Ala Met Gly Leu  
                   165                  170                  175

Leu	Asn	Phe	Lys	Ala	Val	Cys	Glu	Glu	Thr	Leu	Lys	Val	Gly	Pro	Gln
			180					185					190		
Val	Gly	Leu	Phe	Leu	Asp	Ala	Val	Val	Phe	Gly	Gly	Glu	Asp	Phe	Arg
		195					200					205			
Ala	Ser	Ile	Gly	Ala	Thr	Ser	Ser	Lys	Glu	Thr	Leu	Gly	Tyr	Ser	Leu
	210					215					220				
Arg	Pro	Ala	Lys	Xaa	Xaa	Cys	His	Ser	Glu	Thr	Xaa	Trp	Val	Ser	Lys
225					230					235					240

Pro

<210> 1995  
 <211> 340  
 <212> PRT  
 <213> Homo sapiens

<400> 1995

Met	Ala	Leu	Arg	Leu	Leu	Arg	Arg	Ala	Ala	Arg	Gly	Ala	Ala	Ala	Ala
1				5					10					15	
Ala	Leu	Leu	Arg	Leu	Lys	Ala	Ser	Leu	Ala	Ala	Asp	Ile	Pro	Arg	Leu
			20					25					30		
Gly	Tyr	Ser	Ser	Ser	Ser	His	His	Lys	Tyr	Ile	Pro	Arg	Arg	Ala	Val
		35					40					45			
Leu	Tyr	Val	Pro	Gly	Asn	Asp	Glu	Lys	Lys	Ile	Lys	Lys	Ile	Pro	Ser
	50					55					60				
Leu	Asn	Val	Asp	Cys	Ala	Val	Leu	Asp	Cys	Glu	Asp	Gly	Val	Ala	Ala
65					70					75					80
Asn	Lys	Lys	Asn	Glu	Ala	Arg	Leu	Arg	Ile	Val	Lys	Thr	Leu	Glu	Asp
				85					90					95	
Ile	Asp	Leu	Gly	Pro	Thr	Glu	Lys	Cys	Val	Arg	Val	Asn	Ser	Val	Ser
		100						105					110		
Ser	Gly	Leu	Ala	Glu	Glu	Asp	Leu	Glu	Thr	Leu	Leu	Gln	Ser	Arg	Val
	115						120					125			
Leu	Pro	Ser	Ser	Leu	Met	Leu	Pro	Lys	Val	Glu	Ser	Pro	Glu	Glu	Ile
	130					135					140				
Gln	Trp	Phe	Ala	Asp	Lys	Phe	Ser	Phe	His	Leu	Lys	Gly	Arg	Lys	Leu
145					150					155					160
Glu	Gln	Pro	Met	Asn	Leu	Ile	Pro	Phe	Val	Glu	Thr	Ala	Met	Gly	Leu
				165					170					175	

Leu Asn Phe Lys Ala Val Cys Glu Glu Thr Leu Lys Val Gly Pro Gln  
 180 185 190  
 Val Gly Leu Phe Leu Asp Ala Val Val Phe Gly Gly Glu Asp Phe Arg  
 195 200 205  
 Ala Ser Ile Gly Ala Thr Ser Ser Lys Glu Thr Leu Asp Ile Leu Tyr  
 210 215 220  
 Ala Arg Gln Lys Ile Val Val Ile Ala Lys Ala Phe Gly Leu Gln Ala  
 225 230 235 240  
 Val Asp Leu Val Tyr Ile Asp Phe Arg Asp Gly Ala Gly Leu Leu Arg  
 245 250 255  
 Gln Ser Arg Glu Gly Ala Ala Met Gly Phe Thr Gly Lys Gln Val Ile  
 260 265 270  
 His Pro Asn Gln Ile Ala Val Val Gln Glu Gln Phe Ser Pro Ser Pro  
 275 280 285  
 Glu Lys Ile Lys Trp Ala Glu Glu Leu Ile Ala Ala Phe Lys Glu His  
 290 295 300  
 Gln Gln Leu Gly Lys Gly Ala Phe Thr Phe Gln Gly Ser Met Ile Asp  
 305 310 315 320  
 Met Pro Leu Leu Lys Gln Ala Gln Asn Thr Val Thr Leu Ala Thr Ser  
 325 330 335  
 Ile Lys Glu Lys  
 340

<210> 1996  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 1996  
 Met Ser Pro Pro Pro Pro Leu Leu Leu Leu Leu Leu Leu Ser Leu Ala  
 1 5 10 15  
 Leu Leu Gly Ala Arg Ala Arg Ala Glu Pro Ala Gly Ser Ala Val Pro  
 20 25 30  
 Ala Gln Ser Arg Pro Cys Val Asp Cys His Ala Phe Glu Phe Met Gln  
 35 40 45  
 Arg Ala Leu Gln Asp Leu Arg Lys Thr Ala Cys Ser Leu Asp Ala Arg  
 50 55 60  
 Thr Glu Thr Leu Leu Leu Gln Ala Glu Arg Arg Ala Leu Cys Ala Cys  
 65 70 75 80  
 Trp Pro Ala Gly His

<210> 1997  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<400> 1997  
 Met Ala Pro Pro Pro Ala Cys Arg Ser Pro Met Ser Pro Pro Pro Pro  
   1                  5                  10                  15  
 Leu Leu Leu Leu Leu Leu Leu Ser Leu Ala Leu Leu Gly Ala Arg Ala  
                   20                  25                  30  
 Arg Ala Glu Pro Ala Gly Ser Ala Val Pro Ala Gln Ser Arg Pro Cys  
           35                  40                  45  
 Val Asp Cys His Ala Phe Glu Phe Met Gln Arg Ala Leu Gln Asp Leu  
       50                  55                  60  
 Arg Lys Thr Ala Cys Ser Leu Asp Ala Arg Thr Glu Thr Leu Leu Leu  
   65                  70                  75                  80  
 Gln Ala Glu Arg Arg Ala Leu Cys Ala Cys Trp Pro Ala Gly His  
                   85                  90                  95

<210> 1998  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (76)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (78)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (79)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (80)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1998

Met	Leu	Cys	Met	Gln	Thr	Val	Met	Pro	Gln	His	Thr	Tyr	Leu	Gln	His
1				5					10					15	

Leu	Val	Phe	Gly	Phe	Cys	Leu	Leu	Ile	Leu	Cys	Ile	Asn	Leu	Ser	Val
			20					25					30		

Leu	Ala	His	Arg	Tyr	Thr	Leu	Cys	Tyr	Phe	Ser	Met	Thr	Gly	Glu	Tyr
		35					40					45			

Ser	Ile	Ile	Asn	Gly	Gln	Leu	Leu	Val	Tyr	Leu	Ser	Asn	Leu	Ser	Ala
	50					55					60				

Gln	Trp	Lys	Tyr	Arg	Tyr	Phe	Gln	Thr	Leu	Leu	Xaa	Leu	Xaa	Xaa	Xaa
65					70					75					80

Gly Val Val Xaa

<210> 1999

<211> 105

<212> PRT

<213> Homo sapiens

<400> 1999

Met	Leu	Cys	Met	Gln	Thr	Val	Met	Pro	Gln	His	Thr	Tyr	Leu	Gln	His
1				5					10					15	

Leu	Val	Phe	Gly	Phe	Cys	Leu	Leu	Ile	Leu	Cys	Ile	Asn	Leu	Ser	Val
			20					25					30		

Leu	Ala	His	Arg	Tyr	Thr	Leu	Cys	Tyr	Phe	Ser	Met	Thr	Gly	Glu	Tyr
		35					40					45			

Ser	Ile	Ile	Asn	Gly	Gln	Leu	Leu	Val	Tyr	Leu	Ser	Asn	Leu	Ser	Ala
	50					55					60				

Gln	Trp	Lys	Tyr	Arg	Tyr	Phe	Gln	Thr	Leu	Leu	Val	Leu	Lys	Lys	Lys
65					70					75					80

Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
				85					90					95	

Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys						
				100					105						

<210> 2000

<211> 108

<212> PRT

<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (76)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (106)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2000  
 Met Leu Cys Met Gln Thr Val Met Pro Gln His Thr Tyr Leu Gln His  
 1 5 10 15  
 Leu Val Phe Gly Phe Cys Leu Leu Ile Leu Cys Ile Asn Leu Ser Val  
 20 25 30  
 Leu Ala His Arg Tyr Thr Leu Cys Tyr Phe Ser Met Thr Gly Glu Tyr  
 35 40 45  
 Ser Ile Ile Asn Gly Gln Leu Leu Val Tyr Leu Ser Asn Leu Ser Ala  
 50 55 60  
 Gln Trp Lys Tyr Arg Tyr Phe Gln Thr Leu Leu Xaa Leu Lys Lys Lys  
 65 70 75 80  
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
 85 90 95  
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa Lys Lys  
 100 105

<210> 2001  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2001  
 Met Pro Leu Ala Pro Ser Pro Val Met Leu Ile Leu Val Ile Leu Leu  
 1 5 10 15  
 Leu Phe Cys Pro Ser Phe Gln Phe Leu Pro Ile Ser Phe Tyr Ser Phe  
 20 25 30  
 Asn Val Tyr Ala Phe Ala Phe Ser Gly Ile Ser Pro Pro Ser Cys Leu  
 35 40 45  
 His Gly Trp Leu His Phe Ile Gln Ser Ser Phe Phe Leu Xaa Tyr Ser  
 50 55 60

Asp Asn Ile Leu Val Ser Pro Ser Leu Tyr Leu  
65 70 75

<210> 2002  
<211> 75  
<212> PRT  
<213> Homo sapiens

<400> 2002

Met Pro Leu Ala Pro Ser Pro Val Met Leu Ile Leu Val Ile Leu Leu  
1 5 10 15

Leu Phe Cys Pro Ser Phe Gln Phe Leu Pro Ile Ser Phe Tyr Ser Phe  
20 25 30

Asn Val Tyr Ala Phe Ala Phe Ser Gly Ile Ser Pro Pro Ser Cys Leu  
35 40 45

His Gly Trp Leu His Phe Ile Gln Ser Ser Phe Phe Leu Leu Tyr Ser  
50 55 60

Asp Asn Ile Leu Phe Ser Pro Ser Leu Tyr Leu  
65 70 75

<210> 2003  
<211> 147  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2003

Met Trp Leu Trp Val Trp Leu Ile His Thr Leu His Ser Gly Leu Gln  
1 5 10 15

Lys Pro Arg Glu Arg Ser Leu Pro Glu Ala Thr Phe Gln Asn Leu Leu  
20 25 30

His Pro Pro Thr Asp Leu Pro Ser Pro Cys Pro Leu Phe Glu Ser Arg  
35 40 45

Cys Gln Val Leu Pro Ala Asp Thr Trp Leu Leu Glu Gly Arg Cys Ser  
50 55 60

Phe His Leu Thr Met Gln Ala Cys Phe Ala Val Gly Arg Ala Val Leu  
65 70 75 80

Ser Ser Ser Gln Leu His Thr Gly Ile Thr Trp Arg Val Gln Lys Leu  
85 90 95



Pro Ala Ser Val Lys Glu His Gln Cys Ile Ser Thr Ala Asn Ile Pro  
100 105 110

Asn Ala Arg Leu Asp Ser Xaa Gln Leu Pro Gly Pro Pro Gly Phe Ser  
115 120 125

Ser Phe Gln Glu Leu Ser Asp Pro Gly Ser Ser Leu Asn Val Gly Tyr  
130 135 140

Lys Leu Thr  
145

<210> 2004  
<211> 147  
<212> PRT  
<213> Homo sapiens

<400> 2004

Met Trp Leu Trp Val Trp Leu Ile His Thr Leu His Ser Gly Leu Gln  
1 5 10 15

Lys Pro Arg Glu Arg Ser Leu Pro Glu Ala Thr Phe Gln Asn Leu Leu  
20 25 30

His Pro Pro Thr Asp Leu Pro Ser Pro Cys Pro Leu Phe Glu Ser Arg  
35 40 45

Cys Gln Val Leu Pro Ala Asp Thr Trp Leu Leu Glu Gly Arg Cys Ser  
50 55 60

Phe His Leu Thr Met Gln Ala Cys Phe Ala Val Gly Arg Ala Val Leu  
65 70 75 80

Ser Ser Ser Gln Leu His Thr Gly Ile Thr Trp Arg Val Gln Lys Leu  
85 90 95

Pro Ala Ser Val Lys Glu His Gln Cys Ile Ser Thr Ala Asn Ile Pro  
100 105 110

Asn Ala Arg Leu Asp Ser Leu Gln Leu Pro Gly Pro Pro Gly Phe Ser  
115 120 125

Ser Phe Gln Glu Leu Ser Asp Pro Gly Ser Ser Leu Asn Val Gly Tyr  
130 135 140

Lys Leu Thr  
145

<210> 2005  
<211> 147  
<212> PRT  
<213> Homo sapiens

<400> 2005

Met	Trp	Leu	Trp	Val	Trp	Leu	Ile	His	Thr	Leu	His	Ser	Gly	Leu	Gln	
1				5					10					15		
Lys	Pro	Arg	Glu	Arg	Ser	Leu	Pro	Glu	Ala	Thr	Phe	Gln	Asn	Leu	Leu	
			20					25					30			
His	Pro	Pro	Thr	Asp	Leu	Pro	Ser	Pro	Cys	Pro	Leu	Phe	Glu	Ser	Arg	
			35				40					45				
Cys	Gln	Val	Leu	Pro	Ala	Asp	Thr	Trp	Leu	Leu	Glu	Gly	Arg	Cys	Ser	
	50					55					60					
Phe	His	Leu	Thr	Met	Gln	Ala	Cys	Phe	Ala	Val	Gly	Arg	Ala	Val	Leu	
65					70					75					80	
Ser	Ser	Ser	Gln	Leu	His	Thr	Gly	Ile	Thr	Trp	Arg	Val	Gln	Lys	Leu	
				85					90					95		
Pro	Ala	Ser	Val	Lys	Glu	His	Gln	Cys	Ile	Ser	Thr	Ala	Asn	Ile	Pro	
			100					105					110			
Asn	Ala	Arg	Leu	Asp	Ser	Leu	Gln	Leu	Pro	Gly	Pro	Pro	Gly	Phe	Ser	
			115				120					125				
Ser	Phe	Gln	Glu	Leu	Ser	Asp	Pro	Gly	Ser	Ser	Leu	Asn	Val	Gly	Tyr	
	130					135					140					
Lys	Leu	Thr														
145																

<210> 2006

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2006

Gln	Gly	Tyr	Phe	Arg	Met	Asp	Ser	Ser	Ala	Thr	Gln	Phe	His	Ile	Glu	
1				5					10					15		
Thr	His	Glu	Asn	Thr	Ser	Gly	Leu	Trp	Ser	Ile	Trp	Tyr	Arg	Asn	His	
			20					25					30			
Phe	Asp	Arg	Ser	Val	Val	Leu	Asn	Asp	Val	Phe	Leu	Ser	Lys	Glu	Thr	
			35				40					45				
Lys	His	Met	Leu	Lys	Ile	Leu	Asn	Phe	Thr	Gly	Pro	Leu	Phe	Leu	Pro	
	50					55					60					
Pro	Gly	Cys	Trp	Asn	Ile	Phe	Ser	Leu	Lys	Leu	Ala	Val	Lys	Asp	Ile	
65					70					75					80	
Ala	Ile	Asn	Leu	Phe	Thr	Asn	Val	Phe	Leu	Thr	Thr	Asn	Ile	Gly	Ala	
				85					90					95		

Ile	Phe	Ala	Ile	Pro	Leu	Gln	Ile	Ser	His	Cys	Leu	Glu	Thr	Arg	Val
			100					105					110		

Thr	Val	Gly	Met	Cys	Glu	Asn	Asn	Trp	Ile	Phe	Lys	Gln	Cys	Glu
	115						120					125		

<210> 2007  
 <211> 221  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2007

Lys	Gly	Thr	Pro	Ala	Gly	Thr	Gly	Pro	Glu	Phe	Pro	Gly	Arg	Pro	Thr
1				5					10					15	
Arg	Pro	Gly	Asp	Leu	Trp	Pro	Thr	Xaa	Xaa	Val	Cys	Val	Thr	Ser	Ser
			20					25					30		
Leu	Xaa	Cys	Thr	Leu	Glu	Asn	Gly	Val	Pro	Cys	Val	Ile	Gln	Glu	Ser
	35						40					45			
Ala	Pro	Val	His	Asn	Ser	Phe	Ile	Asp	Trp	Ser	Ala	Thr	Cys	Glu	Gly
	50					55					60				
Gln	Phe	Ser	Ser	Ala	Tyr	Cys	Pro	Leu	Glu	Leu	Asn	Asp	Tyr	Asn	Ala
65				70					75					80	
Phe	Pro	Glu	Glu	Asn	Met	Asn	Tyr	Ala	Asn	Gly	Phe	Pro	Cys	Pro	Ala
				85				90					95		
Asp	Val	Gln	Thr	Asp	Phe	Ile	Asp	His	Asn	Ser	Gln	Ser	Thr	Trp	Asn
		100					105					110			
Thr	Pro	Pro	Asn	Met	Pro	Ala	Ala	Trp	Gly	His	Ala	Ser	Phe	Ile	Ser
	115					120					125				
Ser	Pro	Pro	Tyr	Leu	Thr	Ser	Thr	Arg	Ser	Leu	Ser	Pro	Met	Ser	Gly
130						135					140				

Leu Phe Gly Ser Ile Trp Ala Pro Gln Ser Asp Val Tyr Glu Asn Cys  
145 150 155 160

Cys Pro Ile Asn Pro Thr Thr Glu His Ser Thr His Met Glu Asn Gln  
165 170 175

Ala Val Val Cys Lys Glu Tyr Tyr Pro Gly Phe Asn Pro Phe Arg Ala  
180 185 190

Tyr Met Asn Leu Asp Ile Trp Thr Thr Thr Ala Asn Arg Asn Ala Asn  
195 200 205

Phe Pro Leu Ser Arg Asp Ser Ser Tyr Cys Gly Asn Val  
210 215 220

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<210> 2008
<211> 166
<212> PRT
<213> Homo sapiens
```

```
<400> 2008
Met Ala Gly Leu Arg Arg Pro Gln Pro Gly Cys Tyr Cys Arg Thr Ala
  1             5             10             15
```

Ala Ala Val Asn Leu Leu Leu Gly Val Phe Gln Val Leu Leu Pro Cys  
20 25 30

Cys Arg Pro Gly Gly Ala Gln Gly Gln Ala Ile Glu Pro Leu Pro Asn  
35 40 45

Val Val Glu Leu Trp Gln Ala Glu Glu Gly Glu Leu Leu Leu Pro Thr  
50 55 60

Gln Gly Asp Ser Glu Glu Gly Leu Glu Glu Pro Ser Gln Glu Gln Ser  
65 70 75 80

Phe Ser Asp Lys Leu Phe Ser Gly Lys Gly Leu His Phe Gln Pro Ser  
85 90 95

Val Leu Asp Phe Gly Ile Gln Phe Leu Gly His Pro Val Ala Lys Ile  
100 105 110

Leu His Ala Tyr Asn Pro Ser Arg Asp Ser Glu Val Val Val Asn Ser  
115 120 125

Val Phe Ala Ala Ala Gly His Phe His Val Pro Pro Val Pro Cys Arg  
130 135 140

```
Val Ile Pro Ala Met Gly Lys Thr Ser Ser Glu Leu Phe Ser Tyr Leu
145                      150                      155                      160
```

Thr Glu Glu Gly Ser Ile  
165

<210> 2009  
<211> 19  
<212> PRT  
<213> Homo sapiens

<400> 2009  
Ile Pro Cys Thr Arg Pro Leu Gly Phe Pro Cys Gly Ser Asn Val Pro  
1 5 10 15

Trp Trp Gly

<210> 2010  
<211> 511  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (171)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (358)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (388)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2010  
Met Ala Gly Leu Arg Arg Pro Gln Pro Gly Cys Tyr Cys Arg Thr Ala  
1 5 10 15

Ala Ala Val Asn Leu Leu Leu Gly Val Phe Gln Val Leu Leu Pro Cys  
20 25 30

Cys Arg Pro Gly Gly Ala Gln Gly Gln Ala Ile Glu Pro Leu Pro Asn  
35 40 45

Val Val Glu Leu Trp Gln Ala Glu Glu Gly Glu Leu Leu Leu Pro Thr  
50 55 60

Gln Gly Asp Ser Glu Glu Gly Leu Glu Glu Pro Ser Gln Glu Gln Ser  
65 70 75 80

Phe Ser Asp Lys Leu Phe Ser Gly Lys Gly Leu His Phe Gln Pro Ser  
85 90 95

Val Leu Asp Phe Gly Ile Gln Phe Leu Gly His Pro Val Ala Lys Ile  
100 105 110

Leu	His	Ala	Tyr	Asn	Pro	Ser	Arg	Asp	Ser	Glu	Val	Val	Val	Asn	Ser	115	120	125	
Val	Phe	Ala	Ala	Ala	Gly	His	Phe	His	Val	Pro	Pro	Val	Pro	Cys	Arg	130	135	140	
Val	Ile	Pro	Ala	Met	Gly	Lys	Thr	Ser	Phe	Arg	Ile	Ile	Phe	Leu	Pro	145	150	155	160
Thr	Glu	Glu	Gly	Ser	Ile	Glu	Ser	Ser	Leu	Xaa	Ile	Asn	Thr	Ser	Ser	165	170	175	
Tyr	Gly	Val	Leu	Ser	Tyr	His	Val	Ser	Gly	Ile	Gly	Thr	Arg	Arg	Ile	180	185	190	
Ser	Thr	Glu	Gly	Ser	Ala	Lys	Gln	Leu	Pro	Asn	Ala	Tyr	Phe	Leu	Leu	195	200	205	
Pro	Lys	Val	Gln	Ser	Ile	Gln	Leu	Ser	Gln	Met	Gln	Ala	Glu	Thr	Thr	210	215	220	
Asn	Thr	Ser	Leu	Leu	Gln	Val	Gln	Leu	Glu	Cys	Ser	Leu	His	Asn	Lys	225	230	235	240
Val	Cys	Gln	Gln	Leu	Lys	Gly	Cys	Tyr	Leu	Glu	Ser	Asp	Asp	Val	Leu	245	250	255	
Arg	Leu	Gln	Met	Ser	Ile	Met	Val	Thr	Met	Glu	Asn	Phe	Ser	Lys	Glu	260	265	270	
Phe	Glu	Glu	Asn	Thr	Gln	His	Leu	Leu	Asp	His	Leu	Ser	Ile	Val	Tyr	275	280	285	
Val	Ala	Thr	Asp	Glu	Ser	Glu	Thr	Ser	Asp	Asp	Ser	Ala	Val	Asn	Met	290	295	300	
Tyr	Ile	Leu	His	Ser	Gly	Asn	Ser	Leu	Ile	Trp	Ile	Gln	Asp	Ile	Arg	305	310	315	320
His	Phe	Ser	Gln	Arg	Asp	Ala	Leu	Ser	Leu	Gln	Phe	Glu	Pro	Val	Leu	325	330	335	
Leu	Pro	Thr	Ser	Thr	Thr	Asn	Phe	Thr	Lys	Ile	Ala	Ser	Phe	Thr	Cys	340	345	350	
Lys	Ala	Ala	Thr	Ser	Xaa	Asp	Ser	Gly	Ile	Ile	Glu	Asp	Val	Lys	Lys	355	360	365	
Thr	Thr	His	Thr	Pro	Thr	Leu	Lys	Ala	Cys	Leu	Phe	Ser	Ser	Val	Ala	370	375	380	
Gln	Gly	Tyr	Xaa	Arg	Met	Asp	Ser	Ser	Ala	Thr	Gln	Phe	His	Ile	Glu	385	390	395	400
Thr	His	Glu	Asn	Thr	Ser	Gly	Leu	Trp	Ser	Ile	Trp	Tyr	Arg	Asn	His	405	410	415	

Phe	Asp	Arg	Ser	Val	Val	Leu	Asn	Asp	Val	Phe	Leu	Ser	Lys	Glu	Thr
			420					425					430		
Lys	His	Met	Leu	Lys	Ile	Leu	Asn	Phe	Thr	Gly	Pro	Leu	Phe	Leu	Pro
		435					440					445			
Pro	Gly	Cys	Trp	Asn	Ile	Phe	Ser	Leu	Lys	Leu	Ala	Val	Lys	Asp	Ile
	450					455					460				
Ala	Ile	Asn	Leu	Phe	Thr	Asn	Val	Phe	Leu	Thr	Thr	Asn	Ile	Gly	Ala
465					470					475					480
Ile	Phe	Ala	Ile	Pro	Leu	Gln	Ile	Ser	His	Cys	Leu	Glu	Thr	Arg	Val
				485					490					495	
Thr	Val	Gly	Met	Cys	Glu	Asn	Asn	Trp	Ile	Phe	Lys	Gln	Cys	Glu	
			500					505					510		

<210> 2011  
 <211> 317  
 <212> PRT  
 <213> Homo sapiens

<400> 2011

Met	Ile	Ala	Leu	Leu	Lys	Ile	Leu	Leu	Ala	Ala	Ala	Pro	Thr	Ser	Lys
1				5					10					15	
Ala	Lys	Thr	Asp	Ser	Ile	Asn	Ile	Leu	Ala	Asp	Val	Leu	Pro	Glu	Glu
			20					25					30		
Met	Pro	Thr	Thr	Val	Leu	Gln	Ser	Met	Lys	Leu	Gly	Val	Asp	Val	Asn
		35					40					45			
Arg	His	Lys	Glu	Val	Ile	Val	Lys	Ala	Ile	Ser	Ala	Val	Leu	Leu	Leu
	50					55					60				
Leu	Leu	Lys	His	Phe	Lys	Leu	Asn	His	Val	Tyr	Gln	Phe	Glu	Tyr	Met
65					70					75					80
Ala	Gln	His	Leu	Val	Phe	Ala	Asn	Cys	Ile	Pro	Leu	Ile	Leu	Lys	Phe
				85					90					95	
Phe	Asn	Gln	Asn	Ile	Met	Ser	Tyr	Ile	Thr	Ala	Lys	Asn	Ser	Ile	Ser
			100					105					110		
Val	Leu	Asp	Tyr	Pro	His	Cys	Val	Val	His	Glu	Leu	Pro	Glu	Leu	Thr
		115					120					125			
Ala	Glu	Ser	Leu	Glu	Ala	Gly	Asp	Ser	Asn	Gln	Phe	Cys	Trp	Arg	Asn
	130					135					140				
Leu	Phe	Ser	Cys	Ile	Asn	Leu	Leu	Arg	Ile	Leu	Asn	Lys	Leu	Thr	Lys
145					150					155					160
Trp	Lys	His	Ser	Arg	Thr	Met	Met	Leu	Val	Val	Phe	Lys	Ser	Ala	Pro



				165					170					175			
Ile	Leu	Lys	Arg	Ala	Leu	Lys	Val	Lys	Gln	Ala	Met	Met	Gln	Leu	Tyr		
			180					185					190				
Val	Leu	Lys	Leu	Leu	Lys	Val	Gln	Thr	Lys	Tyr	Leu	Gly	Arg	Gln	Trp		
		195					200					205					
Arg	Lys	Ser	Asn	Met	Lys	Thr	Met	Ser	Ala	Ile	Tyr	Gln	Lys	Val	Arg		
	210					215					220						
His	Arg	Leu	Asn	Asp	Asp	Trp	Ala	Tyr	Gly	Asn	Asp	Leu	Asp	Ala	Arg		
225					230					235					240		
Pro	Trp	Asp	Phe	Gln	Ala	Glu	Glu	Cys	Ala	Leu	Arg	Ala	Asn	Ile	Glu		
			245						250					255			
Arg	Phe	Asn	Ala	Arg	Arg	Tyr	Asp	Arg	Ala	His	Ser	Asn	Pro	Asp	Phe		
			260					265					270				
Leu	Pro	Val	Asp	Asn	Cys	Leu	Gln	Ser	Val	Leu	Gly	Gln	Arg	Val	Asp		
		275					280					285					
Leu	Pro	Glu	Asp	Phe	Gln	Met	Asn	Tyr	Asp	Leu	Trp	Leu	Glu	Arg	Glu		
	290					295					300						
Val	Phe	Ser	Lys	Pro	Ile	Ser	Trp	Glu	Glu	Leu	Leu	Gln					
305					310					315							

<210> 2012  
 <211> 957  
 <212> PRT  
 <213> Homo sapiens

<400> 2012																	
Met	Ala	Leu	Leu	His	Trp	Gly	Ala	Leu	Trp	Arg	Gln	Leu	Ala	Ser	Pro		
1				5					10					15			
Cys	Gly	Ala	Trp	Ala	Leu	Arg	Asp	Thr	Pro	Ile	Pro	Arg	Trp	Lys	Leu		
			20					25					30				
Ser	Ser	Ala	Glu	Thr	Tyr	Ser	Arg	Met	Arg	Leu	Lys	Leu	Val	Pro	Asn		
		35					40					45					
His	His	Phe	Asp	Pro	His	Leu	Glu	Ala	Ser	Ala	Leu	Arg	Asp	Asn	Leu		
	50					55					60						
Gly	Glu	Val	Pro	Leu	Thr	Pro	Thr	Glu	Glu	Ala	Ser	Leu	Pro	Leu	Ala		
65					70					75					80		
Val	Thr	Lys	Glu	Ala	Lys	Val	Ser	Thr	Pro	Pro	Glu	Leu	Leu	Gln	Glu		
				85					90					95			
Asp	Gln	Leu	Gly	Glu	Asp	Glu	Leu	Ala	Glu	Leu	Glu	Thr	Pro	Met	Glu		
		100						105					110				



Ala	Ala	Glu	Leu	Asp	Glu	Gln	Arg	Glu	Lys	Leu	Val	Leu	Ser	Ala	Glu
		115					120					125			
Cys	Gln	Leu	Val	Thr	Val	Val	Ala	Val	Val	Pro	Gly	Leu	Leu	Glu	Val
	130					135					140				
Thr	Thr	Gln	Asn	Val	Tyr	Phe	Tyr	Asp	Gly	Ser	Thr	Glu	Arg	Val	Glu
145					150					155					160
Thr	Glu	Glu	Gly	Ile	Gly	Tyr	Asp	Phe	Arg	Arg	Pro	Leu	Ala	Gln	Leu
				165					170					175	
Arg	Glu	Val	His	Leu	Arg	Arg	Phe	Asn	Leu	Arg	Arg	Ser	Ala	Leu	Glu
			180					185					190		
Leu	Phe	Phe	Ile	Asp	Gln	Ala	Asn	Tyr	Phe	Leu	Asn	Phe	Pro	Cys	Lys
		195					200					205			
Val	Gly	Thr	Thr	Pro	Val	Ser	Ser	Pro	Ser	Gln	Thr	Pro	Arg	Pro	Gln
	210					215					220				
Pro	Gly	Pro	Ile	Pro	Pro	His	Thr	Gln	Val	Arg	Asn	Gln	Val	Tyr	Ser
225					230					235					240
Trp	Leu	Leu	Arg	Leu	Arg	Pro	Pro	Ser	Gln	Gly	Tyr	Leu	Ser	Ser	Arg
				245					250					255	
Ser	Pro	Gln	Glu	Met	Leu	Arg	Ala	Ser	Gly	Leu	Thr	Gln	Lys	Trp	Val
			260					265					270		
Gln	Arg	Glu	Ile	Ser	Asn	Phe	Glu	Tyr	Leu	Met	Gln	Leu	Asn	Thr	Ile
		275					280					285			
Ala	Gly	Arg	Thr	Tyr	Asn	Asp	Leu	Ser	Gln	Tyr	Pro	Val	Phe	Pro	Trp
	290					295					300				
Val	Leu	Gln	Asp	Tyr	Val	Ser	Pro	Thr	Leu	Asp	Leu	Ser	Asn	Pro	Ala
305					310					315					320
Val	Phe	Arg	Asp	Leu	Ser	Lys	Pro	Ile	Gly	Val	Val	Asn	Pro	Lys	His
				325					330					335	
Ala	Gln	Leu	Val	Arg	Glu	Lys	Tyr	Glu	Ser	Phe	Glu	Asp	Pro	Ala	Gly
			340					345					350		
Thr	Ile	Asp	Lys	Phe	His	Tyr	Gly	Thr	His	Tyr	Ser	Asn	Ala	Ala	Gly
		355					360					365			
Val	Met	His	Tyr	Leu	Ile	Arg	Val	Glu	Pro	Phe	Thr	Ser	Leu	His	Val
	370					375					380				
Gln	Leu	Gln	Ser	Gly	Arg	Phe	Asp	Cys	Ser	Asp	Arg	Gln	Phe	His	Ser
385					390					395					400
Val	Ala	Ala	Ala	Trp	Gln	Ala	Arg	Leu	Glu	Ser	Pro	Ala	Asp	Val	Lys
				405					410					415	

Glu	Leu	Ile	Pro	Glu	Phe	Phe	Tyr	Phe	Pro	Asp	Phe	Leu	Glu	Asn	Gln	420	425	430	
Asn	Gly	Phe	Asp	Leu	Gly	Cys	Leu	Gln	Leu	Thr	Asn	Glu	Lys	Val	Gly	435	440	445	
Asp	Val	Val	Leu	Pro	Pro	Trp	Ala	Ser	Ser	Pro	Glu	Asp	Phe	Ile	Gln	450	455	460	
Gln	His	Arg	Gln	Ala	Leu	Glu	Ser	Glu	Tyr	Val	Ser	Ala	His	Leu	His	465	470	475	480
Glu	Trp	Ile	Asp	Leu	Ile	Phe	Gly	Tyr	Lys	Gln	Arg	Gly	Pro	Ala	Ala	485	490	495	
Glu	Glu	Ala	Leu	Asn	Val	Phe	Tyr	Tyr	Cys	Thr	Tyr	Glu	Gly	Ala	Val	500	505	510	
Asp	Leu	Asp	His	Val	Thr	Asp	Glu	Arg	Glu	Arg	Lys	Ala	Leu	Glu	Gly	515	520	525	
Ile	Ile	Ser	Asn	Phe	Gly	Gln	Thr	Pro	Cys	Gln	Leu	Leu	Lys	Glu	Pro	530	535	540	
His	Pro	Thr	Arg	Leu	Ser	Ala	Glu	Glu	Ala	Ala	His	Arg	Leu	Ala	Arg	545	550	555	560
Leu	Asp	Thr	Asn	Ser	Pro	Ser	Ile	Phe	Gln	His	Leu	Asp	Glu	Leu	Lys	565	570	575	
Ala	Phe	Phe	Ala	Glu	Val	Val	Ser	Asp	Gly	Val	Pro	Leu	Val	Leu	Ala	580	585	590	
Leu	Val	Pro	His	Arg	Gln	Pro	His	Ser	Phe	Ile	Thr	Gln	Gly	Ser	Pro	595	600	605	
Asp	Leu	Leu	Val	Thr	Val	Ser	Ala	Ser	Gly	Leu	Leu	Gly	Thr	His	Ser	610	615	620	
Trp	Leu	Pro	Tyr	Asp	Arg	Asn	Ile	Ser	Asn	Tyr	Phe	Ser	Phe	Ser	Lys	625	630	635	640
Asp	Pro	Thr	Met	Gly	Ser	His	Lys	Thr	Gln	Arg	Leu	Leu	Ser	Gly	Pro	645	650	655	
Trp	Val	Pro	Gly	Ser	Gly	Val	Ser	Gly	Gln	Ala	Leu	Ala	Val	Ala	Pro	660	665	670	
Asp	Gly	Lys	Leu	Leu	Phe	Ser	Gly	Gly	His	Trp	Asp	Gly	Ser	Leu	Arg	675	680	685	
Val	Thr	Ala	Leu	Pro	Arg	Gly	Lys	Leu	Leu	Ser	Gln	Leu	Ser	Cys	His	690	695	700	
Leu	Asp	Val	Val	Thr	Cys	Leu	Ala	Leu	Asp	Thr	Cys	Gly	Ile	Tyr	Leu	705	710	715	720

Ile Ser Gly Ser Arg Asp Thr Thr Cys Met Val Trp Arg Leu Leu His  
 725 730 735  
 Gln Gly Gly Leu Ser Val Gly Leu Ala Pro Lys Pro Val Gln Val Leu  
 740 745 750  
 Tyr Gly His Gly Ala Ala Val Ser Cys Val Ala Ile Ser Thr Glu Leu  
 755 760 765  
 Asp Met Ala Val Ser Gly Ser Glu Asp Gly Thr Val Ile Ile His Thr  
 770 775 780  
 Val Arg Arg Gly Gln Phe Val Ala Ala Leu Arg Pro Leu Gly Ala Thr  
 785 790 795 800  
 Phe Pro Gly Pro Ile Phe His Leu Ala Leu Gly Ser Glu Gly Gln Ile  
 805 810 815  
 Val Val Gln Ser Ser Ala Trp Glu Arg Pro Gly Ala Gln Val Thr Tyr  
 820 825 830  
 Ser Leu His Leu Tyr Ser Val Asn Gly Lys Leu Arg Ala Ser Leu Pro  
 835 840 845  
 Leu Ala Glu Gln Pro Thr Ala Leu Thr Val Thr Glu Asp Phe Val Leu  
 850 855 860  
 Leu Gly Thr Ala Gln Cys Ala Leu His Ile Leu Gln Leu Asn Thr Leu  
 865 870 875 880  
 Leu Pro Ala Ala Pro Pro Leu Pro Met Lys Val Ala Ile Arg Ser Val  
 885 890 895  
 Ala Val Thr Lys Glu Arg Ser His Val Leu Val Gly Leu Glu Asp Gly  
 900 905 910  
 Lys Leu Ile Val Val Val Ala Gly Gln Pro Ser Glu Val Arg Ser Ser  
 915 920 925  
 Gln Phe Ala Arg Lys Leu Trp Arg Ser Ser Arg Arg Ile Ser Gln Val  
 930 935 940  
 Ser Ser Gly Glu Thr Glu Tyr Asn Pro Thr Glu Ala Arg  
 945 950 955

<210> 2013  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 2013  
 Met Trp Trp Glu Asp Leu Met Lys Gly Leu Phe Cys Leu Trp Pro Leu  
 1 5 10 15

Val Arg Ser Val Ser Ser Leu Met Thr Ser Ser Thr Ser Cys Pro Ser  
20 25 30

Pro Pro Thr Leu Pro Pro Trp Arg Pro Cys Leu Pro Arg Leu Arg Met  
35 40 45

Arg Val Leu Val Leu Leu Ile Trp Ser  
50 55

<210> 2014  
<211> 57  
<212> PRT  
<213> Homo sapiens

<400> 2014  
Met Trp Trp Glu Asp Leu Met Lys Gly Leu Phe Cys Leu Trp Pro Leu  
1 5 10 15

Val Arg Ser Val Ser Ser Leu Met Thr Ser Ser Thr Ser Cys Pro Ser  
20 25 30

Pro Pro Thr Leu Pro Pro Trp Arg Pro Cys Leu Pro Arg Leu Arg Met  
35 40 45

Arg Val Leu Val Leu Leu Ile Trp Ser  
50 55

<210> 2015  
<211> 75  
<212> PRT  
<213> Homo sapiens

<400> 2015  
Met Asn Leu His Tyr Leu Leu Ala Val Ile Leu Ile Gly Ala Ala Gly  
1 5 10 15

Val Phe Ala Phe Ile Asp Val Cys Leu Gln Arg Asn His Phe Arg Gly  
20 25 30

Lys Lys Ala Lys Lys His Met Leu Val Pro Pro Pro Gly Lys Glu Lys  
35 40 45

Gly Pro Gln Gln Gly Lys Gly Pro Glu Pro Ala Lys Pro Pro Glu Pro  
50 55 60

Gly Lys Pro Pro Gly Pro Ala Lys Gly Lys Lys  
65 70 75

<210> 2016  
<211> 42  
<212> PRT

<213> Homo sapiens

<400> 2016

Met Arg Leu Ser Lys Ser Asn Gln Val Gln Leu Phe Leu Tyr Phe Leu  
1 5 10 15  
Leu Gln Trp Ser Leu Gly Ser Val Asn Ala Glu Thr Ser Leu Gln Ile  
20 25 30  
Leu Leu Ala Cys Ser Phe Thr Thr Asp Ser  
35 40

<210> 2017

<211> 169

<212> PRT

<213> Homo sapiens

<400> 2017

Met Trp Ala Val Leu Arg Leu Ala Leu Arg Pro Cys Ala Arg Ala Ser  
1 5 10 15  
Pro Ala Gly Pro Arg Ala Tyr His Gly Asp Ser Val Ala Ser Leu Gly  
20 25 30  
Thr Gln Pro Asp Leu Gly Ser Ala Leu Tyr Gln Glu Asn Tyr Lys Gln  
35 40 45  
Met Lys Ala Leu Val Asn Gln Leu His Glu Arg Val Glu His Ile Lys  
50 55 60  
Leu Gly Gly Gly Glu Lys Ala Arg Ala Leu His Ile Ser Arg Gly Lys  
65 70 75 80  
Leu Leu Pro Arg Glu Arg Ile Asp Asn Leu Ile Asp Pro Gly Ser Pro  
85 90 95  
Phe Leu Glu Leu Ser Gln Phe Ala Gly Tyr Gln Leu Tyr Asp Asn Glu  
100 105 110  
Glu Val Pro Gly Gly Gly Ile Ile Thr Gly Ile Gly Arg Val Ser Gly  
115 120 125  
Val Glu Cys Met Ile Ile Ala Asn Asp Ala Thr Val Lys Gly Gly Ala  
130 135 140  
Tyr Tyr Pro Val Thr Val Lys Lys Gln Leu Arg Ala Gln Glu Ile Ala  
145 150 155 160  
Met Gln Thr Gly Ser Pro Ala Ser Thr  
165

<210> 2018

<211> 45

<212> PRT  
<213> Homo sapiens

<400> 2018

Met Val Lys His Phe Thr Leu Trp Met Val Cys Leu Ser Leu Val Phe  
1 5 10 15

Arg Lys Leu Leu Ser Leu Leu Pro Lys Lys Lys Glu Gly Gln Val Asn  
20 25 30

Phe Phe Asn Gln Lys Lys Ile Thr His Phe Ile Lys Pro  
35 40 45

<210> 2019

<211> 388

<212> PRT

<213> Homo sapiens

<400> 2019

Met Met Thr Ile Thr Phe Leu Pro Tyr Thr Phe Ser Leu Met Val Thr  
1 5 10 15

Phe Pro Asp Val Pro Leu Gly Ile Phe Leu Phe Cys Val Cys Val Ile  
20 25 30

Ala Ile Gly Val Val Gln Ala Leu Ile Val Gly Tyr Ala Phe His Phe  
35 40 45

Pro His Leu Leu Ser Pro Gln Ile Gln Arg Ser Ala His Arg Ala Leu  
50 55 60

Tyr Arg Arg His Val Leu Gly Ile Val Leu Gln Gly Pro Ala Leu Cys  
65 70 75 80

Phe Ala Ala Ala Ile Phe Ser Leu Phe Phe Val Pro Leu Ser Tyr Leu  
85 90 95

Leu Met Val Thr Val Ile Leu Leu Pro Tyr Val Ser Lys Val Thr Gly  
100 105 110

Trp Cys Arg Asp Arg Leu Leu Gly His Arg Glu Pro Ser Ala His Pro  
115 120 125

Val Glu Val Phe Ser Phe Asp Leu His Glu Pro Leu Ser Lys Glu Arg  
130 135 140

Val Glu Ala Phe Ser Asp Gly Val Tyr Ala Ile Val Ala Thr Leu Leu  
145 150 155 160

Ile Leu Asp Ile Cys Glu Asp Asn Val Pro Asp Pro Lys Asp Val Lys  
165 170 175

Glu Arg Phe Ser Gly Ser Leu Val Ala Ala Leu Ser Ala Thr Gly Pro  
180 185 190

Arg Phe Leu Ala Tyr Phe Gly Ser Phe Ala Thr Val Gly Leu Leu Trp  
 195 200 205  
 Phe Ala His His Ser Leu Phe Leu His Val Arg Lys Ala Thr Arg Ala  
 210 215 220  
 Met Gly Leu Leu Asn Thr Leu Ser Leu Ala Phe Val Gly Gly Leu Pro  
 225 230 235 240  
 Leu Ala Tyr Gln Gln Thr Ser Ala Phe Ala Arg Gln Pro Arg Asp Glu  
 245 250 255  
 Leu Glu Arg Val Arg Val Ser Cys Thr Ile Ile Phe Leu Ala Ser Ile  
 260 265 270  
 Phe Gln Leu Ala Met Trp Thr Thr Ala Leu Leu His Gln Ala Glu Thr  
 275 280 285  
 Leu Gln Pro Ser Val Trp Phe Gly Gly Arg Glu His Val Leu Met Phe  
 290 295 300  
 Ala Lys Leu Ala Leu Tyr Pro Cys Ala Ser Leu Leu Ala Phe Ala Ser  
 305 310 315 320  
 Thr Cys Leu Leu Ser Arg Phe Ser Val Gly Ile Phe His Leu Met Gln  
 325 330 335  
 Ile Ala Val Pro Cys Ala Phe Leu Leu Leu Arg Leu Leu Val Gly Leu  
 340 345 350  
 Ala Leu Ala Thr Leu Arg Val Leu Arg Gly Leu Ala Arg Pro Glu His  
 355 360 365  
 Pro Pro Pro Ala Pro Thr Gly Gln Asp Asp Pro Gln Ser Gln Leu Leu  
 370 375 380  
 Pro Ala Pro Cys  
 385

<210> 2020  
 <211> 554  
 <212> PRT  
 <213> Homo sapiens

<400> 2020  
 Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp Leu Val Cys Gly  
 1 5 10 15  
 Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser His Gly Gly Arg  
 20 25 30  
 Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro Ala Arg Phe Leu  
 35 40 45  
 Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser Thr Leu Glu Glu



50		55		60
Pro Asn Leu Gln Pro Leu Gln Arg Arg Arg Ser Val Pro Val Leu Arg				
65		70		75 80
Leu Ala Arg Pro Thr Glu Pro Pro Ala Arg Ser Asp Ile Asn Gly Ala				
	85		90	95
Ala Val Arg Pro Glu Gln Arg Pro Ala Ala Arg Gly Ser Pro Arg Glu				
	100		105	110
Met Ile Arg Asp Glu Gly Ser Ser Ala Arg Ser Arg Met Leu Arg Phe				
	115		120	125
Pro Ser Gly Ser Ser Ser Pro Asn Ile Leu Ala Ser Phe Ala Gly Lys				
	130		135	140
Asn Arg Val Trp Val Ile Ser Ala Pro His Ala Ser Glu Gly Tyr Tyr				
145		150		155 160
Arg Leu Met Met Ser Leu Leu Lys Asp Asp Val Tyr Cys Glu Leu Ala				
	165		170	175
Glu Arg His Ile Gln Gln Ile Val Leu Phe His Gln Ala Gly Glu Glu				
	180		185	190
Gly Gly Lys Val Arg Arg Ile Thr Ser Glu Gly Gln Ile Leu Glu Gln				
	195		200	205
Pro Leu Asp Pro Ser Leu Ile Pro Lys Leu Met Ser Phe Leu Lys Leu				
	210		215	220
Glu Lys Gly Lys Phe Gly Met Val Leu Leu Lys Lys Thr Leu Gln Val				
225		230		235 240
Glu Glu Arg Tyr Pro Tyr Pro Val Arg Leu Glu Ala Met Tyr Glu Val				
	245		250	255
Ile Asp Gln Gly Pro Ile Arg Arg Ile Glu Lys Ile Arg Gln Lys Gly				
	260		265	270
Phe Val Gln Lys Cys Lys Ala Ser Gly Val Glu Gly Gln Val Val Ala				
	275		280	285
Glu Gly Asn Asp Gly Gly Gly Gly Ala Gly Arg Pro Ser Gln Gly Ser				
	290		295	300
Glu Lys Lys Lys Glu Asp Pro Arg Arg Ala Gln Val Pro Pro Thr Arg				
305		310		315 320
Glu Ser Arg Val Lys Val Leu Arg Lys Leu Ala Ala Thr Ala Pro Ala				
	325		330	335
Phe Pro Gln Pro Pro Ser Thr Pro Arg Ala Thr Thr Leu Thr Pro Ala				
	340		345	350
Pro Ala Thr Thr Val Thr Arg Ser Thr Ser Arg Ala Gly Asn Arg Cys				



355		360		365											
Cys	Lys	Thr	Tyr	Asp	His	His	Trp	Leu	Ser	His	His	Ala	Glu	Ala	Leu
370						375					380				
Asp	Pro	Leu	Thr	Leu	Pro	Thr	Gly	Pro	Leu	Gln	Pro	Leu	Arg	Val	Ile
385					390					395					400
Thr	Ala	Arg	Arg	Pro	Ser	Val	Ser	Arg	Glu	Ser	Leu	Pro	Ser	Ile	Pro
				405					410					415	
Gly	Arg	Ile	Ser	Thr	Gly	Arg	Gly	His	Arg	Gln	Pro	Gly	Gly	Pro	Ala
			420					425					430		
Arg	Pro	Thr	Ser	Leu	Glu	Ser	Phe	Thr	Asn	Ala	Pro	Pro	Thr	Thr	Ile
		435					440					445			
Ser	Glu	Pro	Ser	Thr	Arg	Ala	Ala	Gly	Pro	Gly	Arg	Phe	Arg	Asp	Asn
450						455					460				
Arg	Met	Asp	Arg	Arg	Glu	His	Gly	His	Arg	Asp	Pro	Asn	Val	Val	Pro
465					470					475					480
Gly	Pro	Pro	Lys	Pro	Ala	Lys	Glu	Lys	Pro	Pro	Lys	Lys	Lys	Ala	Gln
				485					490					495	
Asp	Lys	Ile	Leu	Ser	Asn	Glu	Tyr	Glu	Glu	Lys	Tyr	Asp	Leu	Ser	Arg
			500					505					510		
Pro	Thr	Ala	Ser	Gln	Leu	Glu	Asp	Glu	Leu	Gln	Val	Gly	Asn	Val	Pro
		515					520					525			
Leu	Lys	Lys	Ala	Lys	Glu	Ser	Lys	Lys	His	Glu	Lys	Leu	Glu	Lys	Pro
530						535					540				
Glu	Lys	Glu	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
545					550										

<210> 2021  
 <211> 509  
 <212> PRT  
 <213> Homo sapiens

<400> 2021  
 Met Thr Trp Arg Met Gly Pro Arg Phe Thr Met Leu Leu Ala Met Trp  
 1 5 10 15  
 Leu Val Cys Gly Ser Glu Pro His Pro His Ala Thr Ile Arg Gly Ser  
 20 25 30  
 His Gly Gly Arg Lys Val Pro Leu Val Ser Pro Asp Ser Ser Arg Pro  
 35 40 45  
 Ala Arg Phe Leu Arg His Thr Gly Arg Ser Arg Gly Ile Glu Arg Ser  
 50 55 60

Thr	Leu	Glu	Glu	Pro	Asn	Leu	Gln	Pro	Leu	Gln	Arg	Arg	Arg	Ser	Val	65	70	75	80
Pro	Val	Leu	Arg	Leu	Ala	Arg	Pro	Thr	Glu	Pro	Pro	Ala	Arg	Ser	Asp	85	90	95	
Ile	Asn	Gly	Ala	Ala	Val	Arg	Pro	Glu	Gln	Arg	Pro	Ala	Ala	Arg	Gly	100	105	110	
Ser	Pro	Arg	Glu	Met	Ile	Arg	Asp	Glu	Gly	Ser	Ser	Ala	Arg	Ser	Arg	115	120	125	
Met	Leu	Arg	Phe	Pro	Ser	Gly	Ser	Ser	Ser	Pro	Asn	Ile	Leu	Ala	Ser	130	135	140	
Phe	Ala	Gly	Lys	Asn	Arg	Val	Trp	Val	Ile	Ser	Ala	Pro	His	Ala	Ser	145	150	155	160
Glu	Gly	Tyr	Tyr	Arg	Leu	Met	Met	Ser	Leu	Leu	Lys	Asp	Asp	Val	Tyr	165	170	175	
Cys	Glu	Leu	Ala	Glu	Arg	His	Ile	Gln	Gln	Ile	Val	Leu	Phe	His	Gln	180	185	190	
Ala	Gly	Glu	Glu	Gly	Gly	Lys	Val	Arg	Arg	Ile	Thr	Ser	Glu	Gly	Gln	195	200	205	
Ile	Leu	Glu	Gln	Pro	Leu	Asp	Pro	Ser	Leu	Ile	Pro	Lys	Leu	Met	Ser	210	215	220	
Phe	Leu	Lys	Leu	Glu	Lys	Gly	Lys	Phe	Gly	Met	Val	Leu	Leu	Lys	Lys	225	230	235	240
Thr	Leu	Gln	Val	Glu	Glu	Arg	Tyr	Pro	Tyr	Pro	Val	Arg	Leu	Glu	Ala	245	250	255	
Met	Tyr	Glu	Val	Ile	Asp	Gln	Gly	Pro	Ile	Arg	Arg	Ile	Glu	Lys	Ile	260	265	270	
Arg	Gln	Lys	Gly	Phe	Val	Gln	Lys	Cys	Lys	Ala	Ser	Gly	Val	Glu	Gly	275	280	285	
Gln	Val	Val	Ala	Glu	Gly	Asn	Asp	Gly	Gly	Gly	Gly	Ala	Gly	Arg	Pro	290	295	300	
Ser	Leu	Gly	Ser	Glu	Lys	Lys	Lys	Glu	Asp	Pro	Arg	Arg	Ala	Gln	Val	305	310	315	320
Pro	Pro	Thr	Arg	Glu	Ser	Arg	Val	Lys	Val	Leu	Arg	Lys	Leu	Ala	Ala	325	330	335	
Thr	Ala	Pro	Ala	Phe	Pro	Gln	Pro	Pro	Ser	Thr	Pro	Arg	Ala	Thr	Thr	340	345	350	
Leu	Pro	Pro	Ala	Pro	Ala	Thr	Thr	Val	Thr	Arg	Ser	Thr	Ser	Arg	Ala	355	360	365	

Val	Thr	Val	Ala	Ala	Arg	Pro	Met	Thr	Thr	Thr	Ala	Phe	Pro	Thr	Thr		
370						375					380						
Gln	Arg	Pro	Trp	Thr	Pro	Ser	Pro	Ser	His	Arg	Pro	Pro	Thr	Thr	Thr		
385					390					395					400		
Glu	Val	Ile	Thr	Ala	Arg	Arg	Pro	Ser	Val	Ser	Glu	Asn	Leu	Tyr	Pro		
				405					410					415			
Pro	Ser	Arg	Lys	Asp	Gln	His	Arg	Glu	Arg	Pro	Gln	Thr	Thr	Arg	Arg		
			420					425					430				
Pro	Ser	Lys	Ala	Thr	Ser	Leu	Glu	Ser	Phe	Thr	Asn	Ala	Pro	Pro	Thr		
		435					440					445					
Thr	Ile	Ser	Glu	Pro	Ser	Thr	Arg	Ala	Ala	Gly	Pro	Gly	Arg	Phe	Arg		
450						455					460						
Asp	Asn	Arg	Met	Asp	Arg	Arg	Glu	His	Gly	His	Arg	Asp	Pro	Asn	Val		
465					470					475					480		
Val	Pro	Gly	Pro	Pro	Lys	Pro	Ala	Lys	Glu	Lys	Pro	Pro	Lys	Lys	Lys		
				485					490					495			
Ala	Gln	Asp	Lys	Ile	Leu	Ser	Asn	Glu	Tyr	Glu	Glu	Val					
			500					505									

<210> 2022  
 <211> 264  
 <212> PRT  
 <213> Homo sapiens

<400> 2022																	
Met	Cys	Leu	Leu	Gly	Ala	Leu	Val	Leu	Leu	Gly	Leu	Gly	Val	Leu	Leu		
1				5					10					15			
Phe	Ser	Gly	Gly	Leu	Ser	Glu	Ser	Glu	Thr	Gly	Pro	Met	Glu	Glu	Val		
			20					25					30				
Glu	Arg	Gln	Val	Leu	Pro	Asp	Pro	Glu	Val	Leu	Glu	Ala	Val	Gly	Asp		
		35					40					45					
Arg	Gln	Asp	Gly	Leu	Arg	Glu	Gln	Leu	Gln	Ala	Pro	Val	Pro	Pro	Asp		
50						55					60						
Ser	Val	Pro	Ser	Leu	Gln	Asn	Met	Gly	Leu	Leu	Leu	Asp	Lys	Leu	Ala		
65					70				75					80			
Lys	Glu	Asn	Gln	Asp	Ile	Arg	Leu	Leu	Gln	Ala	Gln	Leu	Gln	Ala	Gln		
			85						90					95			
Lys	Glu	Glu	Leu	Gln	Ser	Leu	Met	His	Gln	Pro	Lys	Gly	Leu	Glu	Glu		
			100				105						110				

Glu	Asn	Ala	Gln	Leu	Arg	Gly	Ala	Leu	Gln	Gln	Gly	Glu	Ala	Phe	Gln	
	115						120					125				
Arg	Ala	Leu	Glu	Ser	Glu	Leu	Gln	Gln	Leu	Arg	Ala	Arg	Leu	Gln	Gly	
	130						135				140					
Leu	Glu	Ala	Asp	Cys	Val	Arg	Gly	Pro	Asp	Gly	Val	Cys	Leu	Ser	Gly	
145					150					155					160	
Gly	Arg	Gly	Pro	Gln	Gly	Asp	Lys	Ala	Ile	Arg	Glu	Gln	Gly	Pro	Arg	
				165					170					175		
Glu	Gln	Glu	Pro	Glu	Leu	Ser	Phe	Leu	Lys	Gln	Lys	Glu	Gln	Leu	Glu	
			180					185					190			
Ala	Glu	Ala	Gln	Ala	Leu	Ser	Leu	Glu	Glu	Val	Ala	Val	Gln	Gln	Thr	
	195						200					205				
Gly	Asp	Asp	Asp	Glu	Val	Asp	Asp	Phe	Glu	Asp	Phe	Ile	Phe	Ser	His	
	210					215					220					
Phe	Phe	Gly	Asp	Lys	Ala	Leu	Lys	Lys	Arg	Ser	Gly	Lys	Lys	Asp	Lys	
225					230					235					240	
His	Ser	Gln	Ser	Pro	Arg	Ala	Ala	Gly	Pro	Arg	Glu	Gly	His	Ser	His	
				245					250					255		
Ser	His	His	His	His	His	Arg	Gly									
			260													

<210> 2023  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

Met	Leu	Cys	Leu	Ser	Ser	Val	Val	Met	Phe	Leu	Pro	Gln	Pro	Gly	Ala	
1				5					10					15		
Ala	Ser	Asp	Pro	Leu	Phe	Ile	Trp	Glu	Ala	Ser	Cys	His	Ser	Leu	Gly	
			20					25					30			
Gln	Asn	Trp	Ala	Gln	Gly	Lys	Gly	Leu	Ser	Pro	Glu	Asp	Gly	Leu	Glu	
		35					40					45				
Gly	Leu	Gly	His	Thr	Arg	Ala	Trp	Thr	Phe	Gly	Ala	Gly	Glu	Pro	Gly	
	50					55					60					
Leu	Arg	Leu	Leu	Asn	Val	Arg	Gly	Leu	Leu	Thr	Arg	Gly	Pro	Ser	Arg	
65					70					75					80	
Gly	Ser	Leu	Cys	Pro	Leu	Leu	Trp	Ser	Asp	Gln	Ala	Leu	His	Leu	Ser	
				85					90					95		
Ala	Gly	Pro	Leu	Trp	Gln	Arg	Ser	Pro	Val	Leu	Phe	Leu	Leu	Phe	Leu	

100 105 110  
Phe Leu Thr Lys Ala Cys Ala Thr Ser Cys Pro  
115 120

<210> 2024  
<211> 57  
<212> PRT  
<213> Homo sapiens

<400> 2024  
Met Asn Cys Val Glu Trp Trp Lys Ser Val Phe Leu Phe Val Val Leu  
1 5 10 15  
Leu Phe Val Thr Ser Val Ser Cys Leu Gly Val Val Gly Val Ala Val  
20 25 30  
Glu Gly Ser Leu Gln Ser Cys Ser Phe Tyr Ser Leu Cys Asn Lys Arg  
35 40 45  
Leu Glu His Val Lys Gly Ile Phe Lys  
50 55

<210> 2025  
<211> 57  
<212> PRT  
<213> Homo sapiens

<400> 2025  
Met Asn Cys Val Glu Trp Trp Lys Ser Val Phe Leu Phe Val Val Leu  
1 5 10 15  
Leu Phe Val Thr Ser Val Ser Cys Leu Gly Val Val Gly Val Ala Val  
20 25 30  
Glu Gly Ser Leu Gln Ser Cys Ser Phe Tyr Ser Leu Cys Asn Lys Arg  
35 40 45  
Leu Glu His Val Lys Gly Ile Phe Lys  
50 55

<210> 2026  
<211> 92  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2026

Met	Glu	Ile	Arg	Thr	Arg	Val	Val	Trp	Leu	Cys	Leu	Cys	Leu	Cys	Leu
1				5					10					15	
Cys	Leu	Cys	Leu	Cys	Leu	Ser	Leu	Phe	Ser	Leu	Pro	Xaa	Ser	Leu	Ser
			20					25					30		
Pro	Leu	Pro	Ser	Pro	Leu	Ser	Leu	Ser	Val	Ser	Leu	Ser	Leu	Ser	Phe
			35					40				45			
His	Gly	Leu	Pro	Leu	Met	Pro	Ser	Arg	Ser	Trp	Thr	Val	Leu	Leu	Pro
	50					55					60				
Ser	Gln	Leu	Thr	Ala	Thr	Ser	Leu	Pro	Asp	Ser	Pro	Ala	Ser	Ala	Cys
65					70					75					80
Arg	Val	Pro	Ala	Ile	Ala	Gly	Ala	Arg	His	His	Ala				
				85					90						

<210> 2027

<211> 82

<212> PRT

<213> Homo sapiens

<400> 2027

Met	Asn	Arg	Ser	Thr	Arg	Ser	Tyr	Arg	Cys	Trp	Ala	Thr	Trp	Pro	Arg
1				5					10					15	
Leu	Gly	Trp	Ala	Leu	Pro	Cys	Cys	Met	Asn	Ser	Leu	Arg	Lys	Gly	Arg
			20					25					30		
Lys	Phe	Ser	Gln	Ile	Thr	Thr	Ser	Leu	Met	Ala	Ser	Val	Ser	Ser	Ala
			35				40					45			
Ser	Met	Val	Ser	Arg	Arg	Arg	Arg	Pro	Leu	Pro	Lys	His	Pro	Val	Thr
	50					55					60				
Thr	Thr	Ser	Thr	Ala	Thr	Ala	Leu	Leu	Gly	Thr	Ser	Ser	Thr	Trp	Ser
65					70					75					80
Lys	Ser														

<210> 2028

<211> 46

<212> PRT

<213> Homo sapiens

<400> 2028

Met	Val	Thr	Ala	Ser	Leu	Leu	Leu	Leu	Pro	Ala	Val	Met	Ala	Ile	Val
1				5					10					15	
Phe	Pro	Ile	Thr	Trp	Ala	Val	Gln	Ser	Gln	Ser	Trp	Ala	Ala	Glu	Phe

	20		25		30								
Asn	Gly	Ala	Cys	Phe	Gln	Val	Leu	His	Gly	Lys	Leu	Tyr	Ser
	35						40					45	

<210> 2029  
 <211> 176  
 <212> PRT  
 <213> Homo sapiens

<400> 2029  
 Met Ser Arg Gly Asp Asn Cys Thr Asp Leu Leu Ala Leu Gly Ile Pro  
 1 5 10 15  
 Ser Ile Thr Gln Ala Trp Gly Leu Trp Val Leu Leu Gly Ala Val Thr  
 20 25 30  
 Leu Leu Phe Leu Ile Ser Leu Ala Ala His Leu Ser Gln Trp Thr Arg  
 35 40 45  
 Gly Arg Ser Arg Ser His Pro Gly Gln Gly Arg Ser Gly Glu Ser Val  
 50 55 60  
 Glu Glu Val Pro Leu Tyr Gly Asn Leu His Tyr Leu Gln Thr Gly Arg  
 65 70 75 80  
 Leu Ser Gln Asp Pro Glu Pro Asp Gln Gln Asp Pro Thr Leu Gly Gly  
 85 90 95  
 Pro Ala Arg Ala Ala Glu Glu Val Met Cys Tyr Thr Ser Leu Gln Leu  
 100 105 110  
 Arg Pro Pro Gln Gly Arg Ile Pro Gly Pro Gly Thr Pro Val Lys Tyr  
 115 120 125  
 Ser Glu Val Val Leu Asp Ser Glu Pro Lys Ser Gln Ala Ser Gly Pro  
 130 135 140  
 Glu Pro Glu Leu Tyr Ala Ser Val Cys Ala Gln Thr Arg Arg Ala Arg  
 145 150 155 160  
 Ala Ser Phe Pro Asp Gln Ala Tyr Ala Asn Ser Gln Pro Ala Ala Ser  
 165 170 175

<210> 2030  
 <211> 168  
 <212> PRT  
 <213> Homo sapiens

<220>



<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2030

Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly  
1 5 10 15

Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly  
20 25 30

Arg Ala Phe Leu Leu Arg Ser Arg Leu Leu His Pro Glu Ala His Val  
35 40 45

Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln  
50 55 60

Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu  
65 70 75 80

Leu His Xaa Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His  
85 90 95

Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly  
100 105 110

Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg  
115 120 125

Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu  
130 135 140

Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr  
145 150 155 160

Ser Arg Asn Gly Leu Val Gly Cys  
165

<210> 2031

<211> 135

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2031

Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly



1	5	10	15												
Pro	Leu	His	Thr	Glu	Ala	Val	Val	Leu	Leu	Val	Pro	Ser	Asp	Asp	Gly
			20					25					30		
Arg	Ala	Phe	Leu	Leu	Arg	Ser	Arg	Leu	Leu	His	Pro	Glu	Ala	His	Val
	35						40					45			
Pro	Pro	Ala	Ala	Asp	Arg	Gly	Ala	Ser	Leu	Gln	Cys	Val	Leu	His	Gln
	50					55					60				
Ala	Ala	Pro	Lys	Ser	Arg	Pro	Arg	Ser	Pro	Ala	Ala	Gly	Ala	Ala	Leu
65					70					75					80
Leu	His	Arg	Pro	Arg	Arg	Thr	Gly	Asp	Glu	Pro	Cys	Arg	Glu	Phe	His
				85					90					95	
Gly	Asn	Gly	Phe	Pro	Gly	Pro	Thr	Gln	Leu	Thr	Pro	Gly	Glu	Cys	Gly
			100					105					110		
Leu	Pro	Ala	Pro	Ser	Xaa	Leu	Leu	Xaa	His	Ala	Ser	Ala	Pro	Val	Arg
	115						120					125			
Thr	Val	Cys	Ala	Leu	Thr	Trp									
	130					135									

<210> 2032  
 <211> 168  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (39)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2032
Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly
1 5 10 15
Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly
20 25 30
Arg Ala Phe Leu Leu Arg Xaa Arg Leu Leu His Pro Glu Ala His Val
35 40 45
Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln
50 55 60
Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu
65 70 75 80
Leu His Arg Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His
85 90 95



<210> 2034  
<211> 168  
<212> PRT  
<213> Homo sapiens

<220>   
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2034  
Met Pro Leu Leu Arg Gly Leu Leu Trp Leu Gln Val Leu Cys Ala Gly  
1 5 10 15  
Pro Leu His Thr Glu Ala Val Val Leu Leu Val Pro Ser Asp Asp Gly  
20 25 30  
Arg Ala Phe Leu Leu Arg Xaa Arg Leu Leu His Pro Glu Ala His Val  
35 40 45  
Pro Pro Ala Ala Asp Arg Gly Ala Ser Leu Gln Cys Val Leu His Gln  
50 55 60  
Ala Ala Pro Lys Ser Arg Pro Arg Ser Pro Ala Ala Gly Ala Ala Leu  
65 70 75 80  
Leu His Arg Pro Arg Arg Thr Gly Asp Glu Pro Cys Arg Glu Phe His  
85 90 95  
Gly Asn Gly Phe Pro Gly Pro Thr Gln Leu Thr Pro Gly Glu Cys Gly  
100 105 110  
Leu Pro Ala Pro Ser Ser Leu Leu Gln His Ala Ser Ala Pro Val Arg  
115 120 125  
Thr Gly Ser Glu Gly Gln Val Val Gly Cys Pro Arg Ala Arg Gly Glu  
130 135 140  
Thr Gly Glu Gly Leu Ser Leu Ala Phe Leu Ser Ser Leu Met Phe Thr  
145 150 155 160  
Ser Arg Asn Gly Leu Val Gly Cys  
165

<210> 2035  
<211> 134  
<212> PRT  
<213> Homo sapiens

<220>   
<221> SITE  
<222> (39)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2035

Met	Pro	Leu	Leu	Arg	Gly	Leu	Leu	Trp	Leu	Gln	Val	Leu	Cys	Ala	Gly	
1				5					10					15		
Pro	Leu	His	Thr	Glu	Ala	Val	Val	Leu	Leu	Val	Pro	Ser	Asp	Asp	Gly	
			20					25					30			
Arg	Ala	Phe	Leu	Leu	Arg	Xaa	Gly	Phe	Phe	Ile	Arg	Arg	Arg	Met	Tyr	
		35					40					45				
Pro	Pro	Pro	Leu	Ile	Glu	Glu	Pro	Ala	Phe	Asn	Val	Ser	Tyr	Thr	Arg	
	50					55					60					
Gln	Pro	Pro	Asn	Pro	Gly	Pro	Gly	Ala	Gln	Gln	Pro	Gly	Pro	Pro	Tyr	
65					70					75					80	
Tyr	Thr	Asp	Pro	Gly	Gly	Pro	Gly	Met	Asn	Pro	Val	Gly	Asn	Ser	Met	
				85					90					95		
Ala	Met	Ala	Phe	Gln	Val	Pro	Pro	Asn	Ser	Pro	Gln	Gly	Ser	Val	Ala	
			100					105					110			
Cys	Pro	Pro	Pro	Pro	Ala	Tyr	Cys	Asn	Thr	Pro	Pro	Pro	Pro	Tyr	Glu	
		115					120					125				
Gln	Val	Val	Lys	Ala	Lys											
	130															

<210> 2036  
 <211> 468  
 <212> PRT  
 <213> Homo sapiens

Met	Gly	Arg	Gly	Trp	Gly	Phe	Leu	Phe	Gly	Leu	Leu	Gly	Ala	Val	Trp	
1				5					10					15		
Leu	Leu	Ser	Ser	Gly	His	Gly	Glu	Glu	Gln	Pro	Pro	Glu	Thr	Ala	Ala	
			20					25					30			
Gln	Arg	Cys	Phe	Cys	Gln	Val	Ser	Gly	Tyr	Leu	Asp	Asp	Cys	Thr	Cys	
		35					40					45				
Asp	Val	Glu	Thr	Ile	Asp	Arg	Phe	Asn	Asn	Tyr	Arg	Leu	Phe	Pro	Arg	
	50					55					60					
Leu	Gln	Lys	Leu	Leu	Glu	Ser	Asp	Tyr	Phe	Arg	Tyr	Tyr	Lys	Val	Asn	
65					70					75					80	
Leu	Lys	Arg	Pro	Cys	Pro	Phe	Trp	Asn	Asp	Ile	Ser	Gln	Cys	Gly	Arg	
				85					90					95		
Arg	Asp	Cys	Ala	Val	Lys	Pro	Cys	Gln	Ser	Asp	Glu	Val	Pro	Asp	Gly	
			100					105					110			
Ile	Lys	Ser	Ala	Ser	Tyr	Lys	Tyr	Ser	Glu	Glu	Ala	Asn	Asn	Leu	Ile	

115					120					125						
Glu	Glu	Cys	Glu	Gln	Ala	Glu	Arg	Leu	Gly	Ala	Val	Asp	Glu	Ser	Leu	
130					135					140						
Ser	Glu	Glu	Thr	Gln	Lys	Ala	Val	Leu	Gln	Trp	Thr	Lys	His	Asp	Asp	
145					150					155					160	
Ser	Ser	Asp	Asn	Phe	Cys	Glu	Ala	Asp	Asp	Ile	Gln	Ser	Pro	Glu	Ala	
165					170					175						
Glu	Tyr	Val	Asp	Leu	Leu	Leu	Asn	Pro	Glu	Arg	Tyr	Thr	Gly	Tyr	Lys	
180					185					190						
Gly	Pro	Asp	Ala	Trp	Lys	Ile	Trp	Asn	Val	Ile	Tyr	Glu	Glu	Asn	Cys	
195					200					205						
Phe	Lys	Pro	Gln	Thr	Ile	Lys	Arg	Pro	Leu	Asn	Pro	Leu	Ala	Ser	Gly	
210					215					220						
Gln	Gly	Thr	Ser	Glu	Glu	Asn	Thr	Phe	Tyr	Ser	Trp	Leu	Glu	Gly	Leu	
225					230					235					240	
Cys	Val	Glu	Lys	Arg	Ala	Phe	Tyr	Arg	Leu	Ile	Ser	Gly	Leu	His	Ala	
245					250					255						
Ser	Ile	Asn	Val	His	Leu	Ser	Ala	Arg	Tyr	Leu	Leu	Gln	Glu	Thr	Trp	
260					265					270						
Leu	Glu	Lys	Lys	Trp	Gly	His	Asn	Ile	Thr	Glu	Phe	Gln	Gln	Arg	Phe	
275					280					285						
Asp	Gly	Ile	Leu	Thr	Glu	Gly	Glu	Gly	Pro	Arg	Arg	Leu	Lys	Asn	Leu	
290					295					300						
Tyr	Phe	Leu	Tyr	Leu	Ile	Glu	Leu	Arg	Ala	Leu	Ser	Lys	Val	Leu	Pro	
305					310					315					320	
Phe	Phe	Glu	Arg	Pro	Asp	Phe	Gln	Leu	Phe	Thr	Gly	Asn	Lys	Ile	Gln	
325					330					335						
Asp	Glu	Glu	Asn	Lys	Met	Leu	Leu	Leu	Glu	Ile	Leu	His	Glu	Ile	Lys	
340					345					350						
Ser	Phe	Pro	Leu	His	Phe	Asp	Glu	Asn	Ser	Phe	Phe	Ala	Gly	Asp	Lys	
355					360					365						
Lys	Glu	Ala	His	Lys	Leu	Lys	Glu	Asp	Phe	Arg	Leu	His	Phe	Arg	Asn	
370					375					380						
Ile	Ser	Arg	Ile	Met	Asp	Cys	Val	Gly	Cys	Phe	Lys	Cys	Arg	Leu	Trp	
385					390					395					400	
Gly	Lys	Leu	Gln	Thr	Gln	Gly	Leu	Gly	Thr	Ala	Leu	Lys	Ile	Leu	Phe	
405					410					415						
Ser	Glu	Lys	Leu	Ile	Ala	Asn	Met	Pro	Glu	Ser	Gly	Pro	Ser	Tyr	Glu	

	420		425		430										
Phe	His	Leu	Thr	Arg	Gln	Glu	Ile	Val	Ser	Leu	Phe	Asn	Ala	Phe	Gly
	435						440					445			
Arg	Ile	Ser	Thr	Ser	Val	Lys	Glu	Leu	Glu	Asn	Phe	Arg	Asn	Leu	Leu
	450					455					460				
Gln	Asn	Ile	His												
465															

<210> 2037  
 <211> 314  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (227)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2037															
Met	Leu	Leu	Ala	Gln	Gly	Leu	Ile	Leu	His	Phe	Leu	Gly	Arg	Ala	Trp
1				5					10					15	
Thr	Trp	Pro	Asp	Ala	Leu	Asn	Ile	Glu	Asn	Ser	Asp	Ser	Glu	Ser	Trp
			20					25					30		
Thr	Ser	His	Thr	Val	Lys	Lys	Phe	Thr	Ala	Ser	Phe	Glu	Ala	Ser	Leu
		35					40					45			
Ser	Gly	Glu	Arg	Glu	Phe	Lys	Thr	Pro	Thr	Ile	Ser	Leu	Lys	Glu	Thr
	50					55					60				
Ile	Gly	Lys	Tyr	Ser	Asp	Asp	His	Glu	Met	Arg	Asn	Glu	Val	Tyr	His
65					70					75					80
Arg	Lys	Ile	Ile	Ser	Trp	Phe	Gly	Asp	Ser	Pro	Leu	Ala	Leu	Phe	Gly
				85					90					95	
Leu	His	Gln	Leu	Ile	Glu	Tyr	Gly	Lys	Lys	Ser	Gly	Lys	Lys	Ala	Gly
			100					105					110		
Asp	Trp	Tyr	Gly	Pro	Ala	Val	Val	Ala	His	Ile	Leu	Arg	Lys	Ala	Val
		115						120				125			
Glu	Glu	Ala	Arg	His	Pro	Asp	Leu	Gln	Gly	Ile	Thr	Ile	Tyr	Val	Ala
		130				135					140				
Gln	Asp	Cys	Thr	Val	Pro	Val	Arg	Leu	Gly	Gly	Glu	Arg	Thr	Asn	Thr
145					150					155					160
Asp	Tyr	Leu	Glu	Phe	Val	Lys	Gly	Ile	Leu	Ser	Leu	Glu	Tyr	Cys	Val
				165					170					175	

Gly Ile Ile Gly Gly Lys Pro Lys Gln Ser Tyr Tyr Phe Ala Gly Phe  
 180 185 190  
 Gln Asp Asp Ser Leu Ile Tyr Met Asp Pro His Tyr Cys Gln Ser Phe  
 195 200 205  
 Val Asp Val Ser Ile Lys Asp Phe Pro Leu Glu Thr Phe His Cys Pro  
 210 215 220  
 Ser Pro Xaa Lys Met Ser Phe Arg Lys Met Asp Pro Ser Cys Thr Ile  
 225 230 235 240  
 Gly Phe Tyr Cys Arg Asn Val Gln Asp Phe Lys Arg Ala Ser Glu Glu  
 245 250 255  
 Ile Thr Lys Met Leu Lys Phe Ser Ser Lys Glu Lys Tyr Pro Leu Phe  
 260 265 270  
 Thr Phe Val Asn Gly His Ser Arg Asp Tyr Asp Phe Thr Ser Thr Thr  
 275 280 285  
 Thr Asn Glu Glu Asp Leu Phe Ser Glu Asp Glu Lys Lys Gln Leu Lys  
 290 295 300  
 Arg Phe Ser Thr Glu Glu Phe Val Leu Leu  
 305 310

<210> 2038  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 2038  
 Met Arg Trp Leu Phe Val Leu Met Leu Ser Leu Pro Leu Pro Pro Thr  
 1 5 10 15  
 Pro Arg Gln Gly Pro Ala Cys Asp Val Pro Leu Pro Val Ser His Val  
 20 25 30  
 Phe Ser Leu Phe Asn Ser His Leu Gly Ala Arg Thr Cys Gly Val Trp  
 35 40 45  
 Phe Ser Leu Pro Val Ser Val Cys  
 50 55

<210> 2039  
 <211> 414  
 <212> PRT  
 <213> Homo sapiens

<400> 2039  
 Met Lys Ala Gln Thr Ala Leu Ser Phe Phe Leu Ile Leu Ile Thr Ser  
 1 5 10 15



Leu	Ser	Gly	Ser	Gln	Gly	Ile	Phe	Pro	Leu	Ala	Phe	Phe	Ile	Tyr	Val		
			20					25					30				
Pro	Met	Asn	Glu	Gln	Ile	Val	Ile	Gly	Arg	Leu	Asp	Glu	Asp	Ile	Ile		
		35					40					45					
Leu	Pro	Ser	Ser	Phe	Glu	Arg	Gly	Ser	Glu	Val	Val	Ile	His	Trp	Lys		
	50					55					60						
Tyr	Gln	Asp	Ser	Tyr	Lys	Val	His	Ser	Tyr	Tyr	Lys	Gly	Ser	Asp	His		
65					70					75					80		
Leu	Glu	Ser	Gln	Asp	Pro	Arg	Tyr	Ala	Asn	Arg	Thr	Ser	Leu	Phe	Tyr		
				85					90					95			
Asn	Glu	Ile	Gln	Asn	Gly	Asn	Ala	Ser	Leu	Phe	Phe	Arg	Arg	Val	Ser		
			100					105						110			
Leu	Leu	Asp	Glu	Gly	Ile	Tyr	Thr	Cys	Tyr	Val	Gly	Thr	Ala	Ile	Gln		
		115					120					125					
Val	Ile	Thr	Asn	Lys	Val	Val	Leu	Lys	Val	Gly	Val	Phe	Leu	Thr	Pro		
	130					135					140						
Val	Met	Lys	Tyr	Glu	Lys	Arg	Asn	Thr	Asn	Ser	Phe	Leu	Ile	Cys	Ser		
145					150					155					160		
Val	Leu	Ser	Val	Tyr	Pro	Arg	Pro	Ile	Ile	Thr	Trp	Lys	Met	Asp	Asn		
				165					170					175			
Thr	Pro	Ile	Ser	Glu	Asn	Asn	Met	Glu	Glu	Thr	Gly	Ser	Leu	Asp	Ser		
			180					185						190			
Phe	Ser	Ile	Asn	Ser	Pro	Leu	Asn	Ile	Thr	Gly	Ser	Asn	Ser	Ser	Tyr		
		195					200					205					
Glu	Cys	Thr	Ile	Glu	Asn	Ser	Leu	Leu	Lys	Gln	Thr	Trp	Thr	Gly	Arg		
	210					215					220						
Trp	Thr	Met	Lys	Asp	Gly	Leu	His	Lys	Met	Gln	Ser	Glu	His	Val	Ser		
225					230					235					240		
Leu	Ser	Cys	Gln	Pro	Val	Asn	Asp	Tyr	Phe	Ser	Pro	Asn	Gln	Asp	Phe		
				245					250					255			
Lys	Val	Thr	Trp	Ser	Arg	Met	Lys	Ser	Gly	Thr	Phe	Ser	Val	Leu	Ala		
			260				265						270				
Tyr	Tyr	Leu	Ser	Ser	Ser	Gln	Asn	Thr	Ile	Ile	Asn	Glu	Ser	Arg	Phe		
		275					280					285					
Ser	Trp	Asn	Lys	Glu	Leu	Ile	Asn	Gln	Ser	Asp	Phe	Ser	Met	Asn	Leu		
	290					295					300						
Met	Asp	Leu	Asn	Leu	Ser	Asp	Ser	Gly	Glu	Tyr	Leu	Cys	Asn	Ile	Ser		
305				310						315					320		



Ser Asp Glu Tyr Thr Leu Leu Thr Ile His Thr Val His Val Glu Pro  
 325 330 335  
 Ser Gln Glu Thr Ala Ser His Asn Lys Gly Leu Trp Ile Leu Val Pro  
 340 345 350  
 Ser Ala Ile Leu Ala Ala Phe Leu Leu Ile Trp Arg Val Lys Cys Cys  
 355 360 365  
 Arg Ala Gln Leu Glu Ala Arg Arg Ser Arg His Pro Ala Asp Gly Ala  
 370 375 380  
 Gln Gln Glu Arg Cys Cys Val Pro Pro Gly Glu Arg Cys Pro Ser Ala  
 385 390 395 400  
 Pro Asp Asn Gly Glu Glu Asn Val Pro Leu Ser Gly Lys Val  
 405 410

<210> 2040  
 <211> 200  
 <212> PRT  
 <213> Homo sapiens

<400> 2040

Met Ala Ser Ser Leu Thr Cys Thr Gly Val Ile Trp Ala Leu Leu Ser  
 1 5 10 15  
 Phe Leu Cys Ala Ala Thr Ser Cys Val Gly Phe Phe Met Pro Tyr Trp  
 20 25 30  
 Leu Trp Gly Ser Gln Leu Gly Lys Pro Val Ser Phe Gly Thr Phe Arg  
 35 40 45  
 Arg Cys Ser Tyr Pro Val His Asp Glu Ser Arg Gln Met Met Val Met  
 50 55 60  
 Val Glu Glu Cys Gly Arg Tyr Ala Ser Phe Gln Gly Ile Pro Ser Ala  
 65 70 75 80  
 Glu Trp Arg Ile Cys Thr Ile Val Thr Gly Leu Gly Cys Gly Leu Leu  
 85 90 95  
 Leu Leu Val Ala Leu Thr Ala Leu Met Gly Cys Cys Val Ser Asp Leu  
 100 105 110  
 Ile Ser Arg Thr Val Gly Arg Val Ala Gly Gly Ile Gln Phe Leu Gly  
 115 120 125  
 Gly Leu Leu Ile Gly Ala Gly Cys Ala Leu Tyr Pro Leu Gly Trp Asp  
 130 135 140  
 Ser Glu Glu Val Arg Gln Thr Cys Gly Tyr Thr Ser Gly Gln Phe Asp  
 145 150 155 160

Leu Gly Lys Cys Glu Ile Gly Trp Ala Tyr Tyr Cys Thr Gly Ala Gly  
165 170 175

Ala Thr Ala Ala Met Leu Leu Cys Thr Trp Leu Ala Cys Phe Ser Gly  
180 185 190

Lys Lys Gln Lys His Tyr Pro Tyr  
195 200

<210> 2041  
<211> 249  
<212> PRT  
<213> Homo sapiens

<400> 2041  
Met Ile Gly Met Ser Thr Lys Ala Val Leu Trp Arg Cys Phe Ser Thr  
1 5 10 15

Val Val Ile Phe Leu Phe Leu Leu Asp Glu Gln Thr Ser Leu Leu Val  
20 25 30

Leu Val Pro Ala Gly Val Gly Ala Ala Ile Glu Leu Trp Lys Val Lys  
35 40 45

Lys Ala Leu Lys Met Thr Ile Phe Trp Arg Gly Leu Met Pro Glu Phe  
50 55 60

Gln Phe Gly Thr Tyr Ser Glu Ser Glu Arg Lys Thr Glu Glu Tyr Asp  
65 70 75 80

Thr Gln Ala Met Lys Tyr Leu Ser Tyr Leu Leu Tyr Pro Leu Cys Val  
85 90 95

Gly Gly Ala Val Tyr Ser Leu Leu Asn Ile Lys Tyr Lys Ser Trp Tyr  
100 105 110

Ser Trp Leu Ile Asn Ser Phe Val Asn Gly Val Tyr Ala Phe Gly Phe  
115 120 125

Leu Phe Met Leu Pro Gln Leu Phe Val Asn Tyr Lys Val Arg Arg Cys  
130 135 140

Val Leu Pro Ala Ala Arg Pro Pro Ser Pro Val Leu Pro Thr Ala Asp  
145 150 155 160

Leu Gly Leu Ser Leu Leu Phe Gln Leu Lys Ser Val Ala His Leu Pro  
165 170 175

Trp Lys Ala Phe Thr Tyr Lys Ala Phe Asn Thr Phe Ile Asp Asp Val  
180 185 190

Phe Ala Phe Ile Ile Thr Met Pro Thr Ser His Arg Leu Ala Cys Phe  
195 200 205

Arg Asp Asp Val Val Phe Leu Val Tyr Leu Tyr Gln Arg Trp Leu Tyr

210		215		220
Pro Val Asp Lys Arg Arg Val Asn Glu Phe Gly Glu Ser Tyr Glu Glu				
225		230		240
Lys Ala Thr Arg Ala Pro His Thr Asp				
	245			

<210> 2042  
 <211> 249  
 <212> PRT  
 <213> Homo sapiens

<400> 2042
Met Ile Gly Met Ser Thr Lys Ala Val Leu Trp Arg Cys Phe Ser Thr
1 5 10 15
Val Val Ile Phe Leu Phe Leu Leu Asp Glu Gln Thr Ser Leu Leu Val
20 25 30
Leu Val Pro Ala Gly Val Gly Ala Ala Ile Glu Leu Trp Lys Val Lys
35 40 45
Lys Ala Leu Lys Met Thr Ile Phe Trp Arg Gly Leu Met Pro Glu Phe
50 55 60
Gln Phe Gly Thr Tyr Ser Glu Ser Glu Arg Lys Thr Glu Glu Tyr Asp
65 70 75 80
Thr Gln Ala Met Lys Tyr Leu Ser Tyr Leu Leu Tyr Pro Leu Cys Val
85 90 95
Gly Gly Ala Val Tyr Ser Leu Leu Asn Ile Lys Tyr Lys Ser Trp Tyr
100 105 110
Ser Trp Leu Ile Asn Ser Phe Val Asn Gly Val Tyr Ala Phe Gly Phe
115 120 125
Leu Phe Met Leu Pro Gln Leu Phe Val Asn Tyr Lys Val Arg Arg Cys
130 135 140
Val Leu Pro Ala Ala Arg Pro Pro Ser Pro Val Leu Pro Thr Ala Asp
145 150 155 160
Leu Gly Leu Ser Leu Leu Phe Gln Leu Lys Ser Val Ala His Leu Pro
165 170 175
Trp Lys Ala Phe Thr Tyr Lys Ala Phe Asn Thr Phe Ile Asp Asp Val
180 185 190
Phe Ala Phe Ile Ile Thr Met Pro Thr Ser His Arg Leu Ala Cys Phe
195 200 205
Arg Asp Asp Val Val Phe Leu Val Tyr Leu Tyr Gln Arg Trp Leu Tyr
210 215 220

Pro Val Asp Lys Arg Arg Val Asn Glu Phe Gly Glu Ser Tyr Glu Glu  
225 230 235 240

Lys Ala Thr Arg Ala Pro His Thr Asp  
245

<210> 2043  
<211> 60  
<212> PRT  
<213> Homo sapiens

<400> 2043  
Met Ser Pro Thr Gly Leu Leu Val Val Phe Ala Pro Val Val Leu Gly  
1 5 10 15  
Leu Lys Ala Ile Thr Leu Ala Ala Leu Leu Leu Ala Leu Ala Thr Ser  
20 25 30  
Arg Arg Ser Pro Gly Gln Glu Asp Val Lys Thr Thr Gly Pro Ala Gly  
35 40 45  
Ala Met Asn Thr Leu Ala Trp Ser Lys Gly Gln Glu  
50 55 60

<210> 2044  
<211> 60  
<212> PRT  
<213> Homo sapiens

<400> 2044  
Met Ser Pro Thr Gly Leu Leu Val Val Phe Ala Pro Val Val Leu Gly  
1 5 10 15  
Leu Lys Ala Ile Thr Leu Ala Ala Leu Leu Leu Ala Leu Ala Thr Ser  
20 25 30  
Arg Arg Ser Pro Gly Gln Glu Asp Val Lys Thr Thr Gly Pro Ala Gly  
35 40 45  
Ala Met Asn Thr Leu Ala Trp Ser Lys Gly Gln Glu  
50 55 60

<210> 2045  
<211> 310  
<212> PRT  
<213> Homo sapiens

<400> 2045  
Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro  
1 5 10 15

Asp	Phe	Phe	Leu	Leu	Leu	Leu	Phe	Arg	Gly	Cys	Leu	Ile	Gly	Ala	Val			
			20					25					30					
Asn	Leu	Lys	Ser	Ser	Asn	Arg	Thr	Pro	Val	Val	Gln	Glu	Phe	Glu	Ser			
		35					40					45						
Val	Glu	Leu	Ser	Cys	Ile	Ile	Thr	Asp	Ser	Gln	Thr	Ser	Asp	Pro	Arg			
	50					55					60							
Ile	Glu	Trp	Lys	Lys	Ile	Gln	Asp	Glu	Gln	Thr	Thr	Tyr	Val	Phe	Phe			
65					70					75					80			
Asp	Asn	Lys	Ile	Gln	Gly	Asp	Leu	Ala	Gly	Arg	Ala	Glu	Ile	Leu	Gly			
				85					90					95				
Lys	Thr	Ser	Leu	Lys	Ile	Trp	Asn	Val	Thr	Arg	Arg	Asp	Ser	Ala	Leu			
			100					105					110					
Tyr	Arg	Cys	Glu	Val	Val	Ala	Arg	Asn	Asp	Arg	Lys	Glu	Ile	Asp	Glu			
		115					120					125						
Ile	Val	Ile	Glu	Leu	Thr	Val	Gln	Val	Lys	Pro	Val	Thr	Pro	Val	Cys			
	130					135					140							
Arg	Val	Pro	Lys	Ala	Val	Pro	Val	Gly	Lys	Met	Ala	Thr	Leu	His	Cys			
145					150					155					160			
Gln	Glu	Ser	Glu	Gly	His	Pro	Arg	Pro	His	Tyr	Ser	Trp	Tyr	Arg	Asn			
				165					170					175				
Asp	Val	Pro	Leu	Pro	Thr	Asp	Ser	Arg	Ala	Asn	Pro	Arg	Phe	Arg	Asn			
			180					185					190					
Ser	Ser	Phe	His	Leu	Asn	Ser	Glu	Thr	Gly	Thr	Leu	Val	Phe	Thr	Ala			
		195					200					205						
Val	His	Lys	Asp	Asp	Ser	Gly	Gln	Tyr	Tyr	Cys	Ile	Ala	Ser	Asn	Asp			
	210					215					220							
Ala	Gly	Ser	Ala	Arg	Cys	Glu	Glu	Gln	Glu	Met	Glu	Val	Tyr	Asp	Leu			
225					230					235					240			
Asn	Ile	Gly	Gly	Ile	Ile	Gly	Gly	Val	Leu	Val	Val	Leu	Ala	Val	Leu			
				245					250					255				
Ala	Leu	Ile	Thr	Leu	Gly	Ile	Cys	Cys	Ala	Tyr	Arg	Arg	Gly	Tyr	Phe			
			260				265						270					
Ile	Asn	Asn	Lys	Gln	Asp	Gly	Glu	Ser	Tyr	Lys	Asn	Pro	Gly	Lys	Pro			
		275					280					285						
Asp	Gly	Val	Asn	Tyr	Ile	Arg	Thr	Asp	Glu	Glu	Gly	Asp	Phe	Arg	His			
	290					295					300							
Lys	Ser	Ser	Phe	Val	Ile													
305					310													

<210> 2046  
<211> 310  
<212> PRT  
<213> Homo sapiens

<400> 2046

Met	Ala	Leu	Arg	Arg	Pro	Pro	Arg	Leu	Arg	Leu	Cys	Ala	Arg	Leu	Pro
1				5					10					15	
Asp	Phe	Phe	Leu	Leu	Leu	Leu	Phe	Arg	Gly	Cys	Leu	Ile	Gly	Ala	Val
			20					25					30		
Asn	Leu	Lys	Ser	Ser	Asn	Arg	Thr	Pro	Val	Val	Gln	Glu	Phe	Glu	Ser
		35					40					45			
Val	Glu	Leu	Ser	Cys	Ile	Ile	Thr	Asp	Ser	Gln	Thr	Ser	Asp	Pro	Arg
	50					55					60				
Ile	Glu	Trp	Lys	Lys	Ile	Gln	Asp	Glu	Gln	Thr	Thr	Tyr	Val	Phe	Phe
65					70					75					80
Asp	Asn	Lys	Ile	Gln	Gly	Asp	Leu	Ala	Gly	Arg	Ala	Glu	Ile	Leu	Gly
				85					90					95	
Lys	Thr	Ser	Leu	Lys	Ile	Trp	Asn	Val	Thr	Arg	Arg	Asp	Ser	Ala	Leu
			100					105					110		
Tyr	Arg	Cys	Glu	Val	Val	Ala	Arg	Asn	Asp	Arg	Lys	Glu	Ile	Asp	Glu
		115					120					125			
Ile	Val	Ile	Glu	Leu	Thr	Val	Gln	Val	Lys	Pro	Val	Thr	Pro	Val	Cys
	130					135					140				
Arg	Val	Pro	Lys	Ala	Val	Pro	Val	Gly	Lys	Met	Ala	Thr	Leu	His	Cys
145					150					155					160
Gln	Glu	Ser	Glu	Gly	His	Pro	Arg	Pro	His	Tyr	Ser	Trp	Tyr	Arg	Asn
				165					170					175	
Asp	Val	Pro	Leu	Pro	Thr	Asp	Ser	Arg	Ala	Asn	Pro	Arg	Phe	Arg	Asn
			180					185					190		
Ser	Ser	Phe	His	Leu	Asn	Ser	Glu	Thr	Gly	Thr	Leu	Val	Phe	Thr	Ala
		195					200					205			
Val	His	Lys	Asp	Asp	Ser	Gly	Gln	Tyr	Tyr	Cys	Ile	Ala	Ser	Asn	Asp
	210					215					220				
Ala	Gly	Ser	Ala	Arg	Cys	Glu	Glu	Gln	Glu	Met	Glu	Val	Tyr	Asp	Leu
225					230					235					240
Asn	Ile	Gly	Gly	Ile	Ile	Gly	Gly	Val	Leu	Val	Val	Leu	Ala	Val	Leu
				245					250					255	

Ala	Leu	Ile	Thr	Leu	Gly	Ile	Cys	Cys	Ala	Tyr	Arg	Arg	Gly	Tyr	Phe
			260					265					270		
Ile	Asn	Asn	Lys	Gln	Asp	Gly	Glu	Ser	Tyr	Lys	Asn	Pro	Gly	Lys	Pro
		275					280					285			
Asp	Gly	Val	Asn	Tyr	Ile	Arg	Thr	Asp	Glu	Glu	Gly	Asp	Phe	Arg	His
	290					295					300				
Lys	Ser	Ser	Phe	Val	Ile										
305					310										

<210> 2047  
 <211> 310  
 <212> PRT  
 <213> Homo sapiens

<400> 2047															
Met	Ala	Leu	Arg	Arg	Pro	Pro	Arg	Leu	Arg	Leu	Cys	Ala	Arg	Leu	Pro
1				5					10					15	
Asp	Phe	Phe	Leu	Leu	Leu	Leu	Phe	Arg	Gly	Cys	Leu	Ile	Gly	Ala	Val
			20					25					30		
Asn	Leu	Lys	Ser	Ser	Asn	Arg	Thr	Pro	Val	Val	Gln	Glu	Phe	Glu	Ser
		35					40					45			
Val	Glu	Leu	Ser	Cys	Ile	Ile	Thr	Asp	Ser	Gln	Thr	Ser	Asp	Pro	Arg
	50					55					60				
Ile	Glu	Trp	Lys	Lys	Ile	Gln	Asp	Glu	Gln	Thr	Thr	Tyr	Val	Phe	Phe
65					70					75					80
Asp	Asn	Lys	Ile	Gln	Gly	Asp	Leu	Ala	Gly	Arg	Ala	Glu	Ile	Leu	Gly
				85					90					95	
Lys	Thr	Ser	Leu	Lys	Ile	Trp	Asn	Val	Thr	Arg	Arg	Asp	Ser	Ala	Leu
			100					105					110		
Tyr	Arg	Cys	Glu	Val	Val	Ala	Arg	Asn	Asp	Arg	Lys	Glu	Ile	Asp	Glu
		115					120					125			
Ile	Val	Ile	Glu	Leu	Thr	Val	Gln	Val	Lys	Pro	Val	Thr	Pro	Val	Cys
	130					135						140			
Arg	Val	Pro	Lys	Ala	Val	Pro	Val	Gly	Lys	Met	Ala	Thr	Leu	His	Cys
145					150					155					160
Gln	Glu	Ser	Glu	Gly	His	Pro	Arg	Pro	His	Tyr	Ser	Trp	Tyr	Arg	Asn
				165					170					175	
Asp	Val	Pro	Leu	Pro	Thr	Asp	Ser	Arg	Ala	Asn	Pro	Arg	Phe	Arg	Asn
			180					185					190		
Ser	Ser	Phe	His	Leu	Asn	Ser	Glu	Thr	Gly	Thr	Leu	Val	Phe	Thr	Ala







Lys Lys Ile Asp  
145

<210> 2049  
<211> 413  
<212> PRT  
<213> Homo sapiens

<400> 2049  
Met Leu Lys Ala Leu Phe Leu Thr Met Leu Thr Leu Ala Leu Val Lys  
1 5 10 15  
Ser Gln Asp Thr Glu Glu Thr Ile Thr Tyr Thr Gln Cys Thr Asp Gly  
20 25 30  
Tyr Glu Trp Asp Pro Val Arg Gln Gln Cys Lys Asp Ile Asp Glu Cys  
35 40 45  
Asp Ile Val Pro Asp Ala Cys Lys Gly Gly Met Lys Cys Val Asn His  
50 55 60  
Tyr Gly Gly Tyr Leu Cys Leu Pro Lys Thr Ala Gln Ile Ile Val Asn  
65 70 75 80  
Asn Glu Gln Pro Gln Gln Glu Thr Gln Pro Ala Glu Gly Thr Ser Gly  
85 90 95  
Ala Thr Thr Gly Val Val Ala Ala Ser Ser Met Ala Thr Ser Gly Val  
100 105 110  
Leu Pro Gly Gly Gly Phe Val Ala Ser Ala Ala Ala Val Ala Gly Pro  
115 120 125  
Glu Met Gln Thr Gly Arg Asn Asn Phe Val Ile Arg Arg Asn Pro Ala  
130 135 140  
Asp Pro Gln Arg Ile Pro Ser Asn Pro Ser His Arg Ile Gln Cys Ala  
145 150 155 160  
Ala Gly Tyr Glu Gln Ser Glu His Asn Val Cys Gln Asp Ile Asp Glu  
165 170 175  
Cys Thr Ala Gly Thr His Asn Cys Arg Ala Asp Gln Val Cys Ile Asn  
180 185 190  
Leu Arg Gly Ser Phe Ala Cys Gln Cys Pro Pro Gly Tyr Gln Lys Arg  
195 200 205  
Gly Glu Gln Cys Val Asp Ile Asp Glu Cys Arg Thr Ser Ser Tyr Leu  
210 215 220  
Cys Gln Tyr Gln Cys Val Asn Glu Pro Gly Lys Phe Ser Cys Met Cys  
225 230 235 240

Pro	Gln	Gly	Tyr	Gln	Val	Val	Arg	Ser	Arg	Thr	Cys	Gln	Asp	Ile	Asn	
				245					250					255		
Glu	Cys	Glu	Thr	Thr	Asn	Glu	Cys	Arg	Glu	Asp	Glu	Met	Cys	Trp	Asn	
			260					265					270			
Tyr	His	Gly	Gly	Phe	Arg	Cys	Tyr	Pro	Arg	Asn	Pro	Cys	Gln	Asp	Pro	
		275					280					285				
Tyr	Ile	Leu	Thr	Pro	Glu	Asn	Arg	Cys	Val	Cys	Pro	Val	Ser	Asn	Ala	
	290					295					300					
Met	Cys	Arg	Glu	Leu	Pro	Gln	Ser	Ile	Val	Tyr	Lys	Tyr	Met	Ser	Ile	
305					310					315					320	
Arg	Ser	Asp	Arg	Ser	Val	Pro	Ser	Asp	Ile	Phe	Gln	Ile	Gln	Ala	Thr	
				325					330					335		
Thr	Ile	Tyr	Ala	Asn	Thr	Ile	Asn	Thr	Phe	Arg	Ile	Lys	Ser	Gly	Asn	
			340				345						350			
Glu	Asn	Gly	Glu	Phe	Tyr	Leu	Arg	Gln	Thr	Ser	Pro	Val	Ser	Ala	Met	
		355					360					365				
Leu	Val	Leu	Val	Lys	Ser	Leu	Ser	Gly	Pro	Arg	Glu	His	Ile	Val	Asp	
	370					375					380					
Leu	Glu	Met	Leu	Thr	Val	Ser	Ser	Ile	Gly	Thr	Phe	Arg	Thr	Ser	Ser	
385					390					395					400	
Val	Leu	Arg	Leu	Thr	Ile	Ile	Val	Gly	Pro	Phe	Ser	Phe				
			405					410								

<210> 2050  
 <211> 683  
 <212> PRT  
 <213> Homo sapiens

<400> 2050

Met	Leu	Phe	Ile	Phe	Asn	Phe	Leu	Phe	Ser	Pro	Leu	Pro	Thr	Pro	Ala	
1				5					10					15		
Leu	Ile	Cys	Ile	Leu	Thr	Phe	Gly	Ala	Ala	Ile	Phe	Leu	Trp	Leu	Ile	
			20					25					30			
Thr	Arg	Pro	Gln	Pro	Val	Leu	Pro	Leu	Leu	Asp	Leu	Asn	Asn	Gln	Ser	
		35					40					45				
Val	Gly	Ile	Glu	Gly	Gly	Ala	Arg	Lys	Gly	Val	Ser	Gln	Lys	Asn	Asn	
	50					55					60					
Asp	Leu	Thr	Ser	Cys	Cys	Phe	Ser	Asp	Ala	Lys	Thr	Met	Tyr	Glu	Val	
65					70					75					80	
Phe	Gln	Arg	Gly	Leu	Ala	Val	Ser	Asp	Asn	Gly	Pro	Cys	Leu	Gly	Tyr	

85							90					95				
Arg	Lys	Pro	Asn	Gln	Pro	Tyr	Arg	Trp	Leu	Ser	Tyr	Lys	Gln	Val	Ser	
			100					105					110			
Asp	Arg	Ala	Glu	Tyr	Leu	Gly	Ser	Cys	Leu	Leu	His	Lys	Gly	Tyr	Lys	
		115						120					125			
Ser	Ser	Pro	Asp	Gln	Phe	Val	Gly	Ile	Phe	Ala	Gln	Asn	Arg	Pro	Glu	
		130						135					140			
Trp	Ile	Ile	Ser	Glu	Leu	Ala	Cys	Tyr	Thr	Tyr	Ser	Met	Val	Ala	Val	
145					150					155					160	
Pro	Leu	Tyr	Asp	Thr	Leu	Gly	Pro	Glu	Ala	Ile	Val	His	Ile	Val	Asn	
				165					170					175		
Lys	Ala	Asp	Ile	Ala	Met	Val	Ile	Cys	Asp	Thr	Pro	Gln	Lys	Ala	Leu	
			180					185					190			
Val	Leu	Ile	Gly	Asn	Val	Glu	Lys	Gly	Phe	Thr	Pro	Ser	Leu	Lys	Val	
		195						200					205			
Ile	Ile	Leu	Met	Asp	Pro	Phe	Asp	Asp	Asp	Leu	Lys	Gln	Arg	Gly	Glu	
		210				215					220					
Lys	Ser	Gly	Ile	Glu	Ile	Leu	Ser	Leu	Tyr	Asp	Ala	Glu	Asn	Leu	Gly	
225					230					235					240	
Lys	Glu	His	Phe	Arg	Lys	Pro	Val	Pro	Pro	Ser	Pro	Glu	Asp	Leu	Ser	
				245					250					255		
Val	Ile	Cys	Phe	Thr	Ser	Gly	Thr	Thr	Gly	Asp	Pro	Lys	Gly	Ala	Met	
			260					265					270			
Ile	Thr	His	Gln	Asn	Ile	Val	Ser	Asn	Ala	Ala	Ala	Phe	Leu	Lys	Cys	
		275						280					285			
Val	Glu	His	Ala	Tyr	Glu	Pro	Thr	Pro	Asp	Asp	Val	Ala	Ile	Ser	Tyr	
		290				295					300					
Leu	Pro	Leu	Ala	His	Met	Phe	Glu	Arg	Ile	Val	Gln	Ala	Val	Val	Tyr	
305					310					315					320	
Ser	Cys	Gly	Ala	Arg	Val	Gly	Phe	Phe	Gln	Gly	Asp	Ile	Arg	Leu	Leu	
				325					330					335		
Ala	Asp	Asp	Met	Lys	Thr	Leu	Lys	Pro	Thr	Leu	Phe	Pro	Ala	Val	Pro	
			340					345					350			
Arg	Leu	Leu	Asn	Arg	Ile	Tyr	Asp	Lys	Val	Gln	Asn	Glu	Ala	Lys	Thr	
		355						360					365			
Pro	Leu	Lys	Lys	Phe	Leu	Leu	Lys	Leu	Ala	Val	Ser	Ser	Lys	Phe	Lys	
		370				375					380					
Glu	Leu	Gln	Lys	Gly	Ile	Ile	Arg	His	Asp	Ser	Phe	Trp	Asp	Lys	Leu	

385					390						395				400
Ile	Phe	Ala	Lys	Ile	Gln	Asp	Ser	Leu	Gly	Gly	Arg	Val	Arg	Val	Ile
				405					410					415	
Val	Thr	Gly	Ala	Ala	Pro	Met	Ser	Thr	Ser	Val	Met	Thr	Phe	Phe	Arg
			420					425					430		
Ala	Ala	Met	Gly	Cys	Gln	Val	Tyr	Glu	Ala	Tyr	Gly	Gln	Thr	Glu	Cys
		435					440					445			
Thr	Gly	Gly	Cys	Thr	Phe	Thr	Leu	Pro	Gly	Asp	Trp	Thr	Ser	Gly	His
	450					455					460				
Val	Gly	Val	Pro	Leu	Ala	Cys	Asn	Tyr	Val	Lys	Leu	Glu	Asp	Val	Ala
465					470					475					480
Asp	Met	Asn	Tyr	Phe	Thr	Val	Asn	Asn	Glu	Gly	Glu	Val	Cys	Ile	Lys
				485					490					495	
Gly	Thr	Asn	Val	Phe	Lys	Gly	Tyr	Leu	Lys	Asp	Pro	Glu	Lys	Thr	Gln
			500					505					510		
Glu	Ala	Leu	Asp	Ser	Asp	Gly	Trp	Leu	His	Thr	Gly	Asp	Ile	Gly	Arg
		515					520					525			
Trp	Leu	Pro	Asn	Gly	Thr	Leu	Lys	Ile	Ile	Asp	Arg	Lys	Lys	Asn	Ile
	530					535					540				
Phe	Lys	Leu	Ala	Gln	Gly	Glu	Tyr	Ile	Ala	Pro	Glu	Lys	Ile	Glu	Asn
545					550					555					560
Ile	Tyr	Asn	Arg	Ser	Gln	Pro	Val	Leu	Gln	Ile	Phe	Val	His	Gly	Glu
				565					570					575	
Ser	Leu	Arg	Ser	Ser	Leu	Val	Gly	Val	Val	Val	Pro	Asp	Thr	Asp	Val
			580					585					590		
Leu	Pro	Ser	Phe	Ala	Ala	Lys	Leu	Gly	Val	Lys	Gly	Ser	Phe	Glu	Glu
		595					600					605			
Leu	Cys	Gln	Asn	Gln	Val	Val	Arg	Glu	Ala	Ile	Leu	Glu	Asp	Leu	Gln
	610					615					620				
Lys	Ile	Gly	Lys	Glu	Ser	Gly	Leu	Lys	Thr	Phe	Glu	Gln	Val	Lys	Ala
625					630					635					640
Ile	Phe	Leu	His	Pro	Glu	Pro	Phe	Ser	Ile	Glu	Asn	Gly	Leu	Leu	Thr
				645					650					655	
Pro	Thr	Leu	Lys	Ala	Lys	Arg	Gly	Glu	Leu	Ser	Lys	Tyr	Phe	Arg	Thr
			660					665					670		
Gln	Ile	Asp	Ser	Leu	Tyr	Glu	His	Ile	Gln	Asp					
		675					680								

<210> 2051  
<211> 298  
<212> PRT  
<213> Homo sapiens

<400> 2051

Met Ala Pro Ser Gly Pro Gly Ser Ser Ala Arg Arg Arg Cys Arg Arg  
1 5 10 15

Val Leu Tyr Trp Ile Pro Val Val Phe Ile Thr Leu Leu Leu Gly Trp  
20 25 30

Ser Tyr Tyr Ala Tyr Ala Ile Gln Leu Cys Ile Val Ser Met Glu Asn  
35 40 45

Thr Gly Glu Gln Val Val Cys Leu Met Ala Tyr His Leu Leu Phe Ala  
50 55 60

Met Phe Val Trp Ser Tyr Trp Lys Thr Ile Phe Thr Leu Pro Met Asn  
65 70 75 80

Pro Ser Lys Glu Phe His Leu Ser Tyr Ala Glu Lys Asp Leu Leu Glu  
85 90 95

Arg Glu Pro Arg Gly Glu Ala His Gln Glu Val Leu Arg Arg Ala Ala  
100 105 110

Lys Asp Leu Pro Ile Tyr Thr Arg Thr Met Ser Gly Ala Ile Arg Tyr  
115 120 125

Cys Asp Arg Cys Gln Leu Ile Lys Pro Asp Arg Cys His His Cys Ser  
130 135 140

Val Cys Asp Lys Cys Ile Leu Lys Met Asp His His Cys Pro Trp Val  
145 150 155 160

Asn Asn Cys Val Gly Phe Ser Asn Tyr Lys Phe Phe Leu Leu Phe Leu  
165 170 175

Ala Tyr Ser Leu Leu Tyr Cys Leu Phe Ile Ala Ala Thr Asp Leu Gln  
180 185 190

Tyr Phe Ile Lys Phe Trp Thr Asn Gly Leu Pro Asp Thr Gln Ala Lys  
195 200 205

Phe His Ile Met Phe Leu Phe Phe Ala Ala Ala Met Phe Ser Val Ser  
210 215 220

Leu Ser Ser Leu Phe Gly Tyr His Cys Trp Leu Val Ser Lys Asn Lys  
225 230 235 240

Ser Thr Leu Glu Ala Phe Arg Ser Pro Val Phe Arg His Gly Thr Asp  
245 250 255

Lys Asn Gly Phe Ser Leu Gly Phe Ser Lys Asn Met Arg Gln Val Phe  
260 265 270

Gly Asp Glu Lys Lys Tyr Trp Leu Leu Pro Ile Phe Ser Ser Leu Gly  
275 280 285

Asp Gly Cys Ser Phe Pro Thr Leu Pro Cys  
290 295

<210> 2052  
<211> 286  
<212> PRT  
<213> Homo sapiens

<400> 2052  
Met Ala Pro Ser Gly Pro Gly Ser Ser Ala Arg Arg Arg Cys Arg Arg  
1 5 10 15

Val Leu Tyr Trp Ile Pro Val Val Phe Ile Thr Leu Leu Leu Gly Trp  
20 25 30

Ser Tyr Tyr Ala Tyr Ala Ile Gln Leu Cys Ile Val Ser Met Glu Asn  
35 40 45

Thr Gly Glu Gln Val Val Cys Leu Met Ala Tyr His Leu Leu Phe Ala  
50 55 60

Met Phe Val Trp Ser Tyr Trp Lys Thr Ile Phe Thr Leu Pro Met Asn  
65 70 75 80

Pro Ser Lys Glu Phe His Leu Ser Tyr Ala Glu Lys Asp Leu Leu Glu  
85 90 95

Arg Glu Pro Arg Gly Glu Ala His Gln Glu Val Leu Arg Arg Ala Ala  
100 105 110

Lys Asp Leu Pro Ile Tyr Thr Arg Thr Met Ser Gly Ala Ile Arg Tyr  
115 120 125

Cys Asp Arg Cys Gln Leu Ile Lys Pro Asp Arg Cys His His Cys Ser  
130 135 140

Val Cys Asp Lys Cys Ile Leu Lys Met Asp His His Cys Pro Trp Val  
145 150 155 160

Asn Asn Cys Val Gly Phe Ser Asn Tyr Lys Phe Phe Leu Leu Phe Leu  
165 170 175

Ala Tyr Ser Leu Leu Tyr Cys Leu Phe Ile Ala Ala Thr Asp Leu Gln  
180 185 190

Tyr Phe Ile Lys Phe Trp Thr Asn Gly Leu Pro Asp Thr Gln Ala Lys  
195 200 205

Phe His Ile Met Phe Leu Phe Phe Ala Ala Ala Met Phe Ser Val Ser  
210 215 220

Leu	Ser	Ser	Leu	Phe	Gly	Tyr	His	Cys	Trp	Leu	Val	Ser	Lys	Asn	Lys
225					230					235					240
Ser	Thr	Leu	Glu	Ala	Phe	Arg	Ser	Pro	Val	Phe	Arg	His	Gly	Thr	Asp
				245					250					255	
Lys	Asn	Gly	Phe	Ser	Leu	Gly	Phe	Ser	Lys	Asn	Met	Arg	Gln	Val	Leu
			260					265					270		
Val	Met	Arg	Arg	Ser	Thr	Gly	Cys	Tyr	Pro	Phe	Phe	Gln	Val		
		275					280					285			

<210> 2053  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 2053															
Met	Ser	His	Gly	Ser	Gln	Pro	Phe	Leu	Leu	Leu	Leu	Ser	Leu	His	Ile
1				5					10					15	
Leu	Ile	Leu	Ala	Gly	Ser	Phe	Leu	Leu	Phe	Ser	Pro	Tyr	Thr	Ala	Lys
			20					25					30		
Pro	Ser	Phe	Ser	Ser	Ser	Phe	Ile	Val	Phe	Pro	Arg	Ala	Glu	Met	
		35					40					45			

<210> 2054  
 <211> 914  
 <212> PRT  
 <213> Homo sapiens

<400> 2054															
Met	Gly	Pro	Phe	Lys	Ser	Ser	Val	Phe	Ile	Leu	Ile	Leu	His	Leu	Leu
1				5					10					15	
Glu	Gly	Ala	Leu	Ser	Asn	Ser	Leu	Ile	Gln	Leu	Asn	Asn	Asn	Gly	Tyr
			20					25					30		
Glu	Gly	Ile	Val	Val	Ala	Ile	Asp	Pro	Asn	Val	Pro	Glu	Asp	Glu	Thr
		35					40					45			
Leu	Ile	Gln	Gln	Ile	Lys	Asp	Met	Val	Thr	Gln	Ala	Ser	Leu	Tyr	Leu
	50					55					60				
Phe	Glu	Ala	Thr	Gly	Lys	Arg	Phe	Tyr	Phe	Lys	Asn	Val	Ala	Ile	Leu
65					70					75					80
Ile	Pro	Glu	Thr	Trp	Lys	Thr	Lys	Ala	Asp	Tyr	Val	Arg	Pro	Lys	Leu
				85					90					95	
Glu	Thr	Tyr	Lys	Asn	Ala	Asp	Val	Leu	Val	Ala	Glu	Ser	Thr	Pro	Pro
			100					105					110		



Gly	Asn	Asp	Glu	Pro	Tyr	Thr	Glu	Gln	Met	Gly	Asn	Cys	Gly	Glu	Lys	115	120	125
Gly	Glu	Arg	Ile	His	Leu	Thr	Pro	Asp	Phe	Ile	Ala	Gly	Lys	Lys	Leu	130	135	140
Ala	Glu	Tyr	Gly	Pro	Gln	Gly	Arg	Ala	Phe	Val	His	Glu	Trp	Ala	His	145	150	155
Leu	Arg	Trp	Gly	Val	Phe	Asp	Glu	Tyr	Asn	Asp	Glu	Lys	Phe	Tyr		165	170	175
Leu	Ser	Asn	Gly	Arg	Ile	Gln	Ala	Val	Arg	Cys	Ser	Ala	Gly	Ile	Thr	180	185	190
Gly	Thr	Asn	Val	Val	Lys	Lys	Cys	Gln	Gly	Gly	Ser	Cys	Tyr	Thr	Lys	195	200	205
Arg	Cys	Thr	Phe	Asn	Lys	Val	Thr	Gly	Leu	Tyr	Glu	Lys	Gly	Cys	Glu	210	215	220
Phe	Val	Leu	Gln	Ser	Arg	Gln	Thr	Glu	Lys	Ala	Ser	Ile	Met	Phe	Ala	225	230	235
Gln	His	Val	Asp	Ser	Ile	Val	Glu	Phe	Cys	Thr	Glu	Gln	Asn	His	Asn	245	250	255
Lys	Glu	Ala	Pro	Asn	Lys	Gln	Asn	Gln	Lys	Cys	Asn	Leu	Arg	Ser	Thr	260	265	270
Trp	Glu	Val	Ile	Arg	Asp	Ser	Glu	Asp	Phe	Lys	Lys	Thr	Thr	Pro	Met	275	280	285
Thr	Thr	Gln	Pro	Pro	Asn	Pro	Thr	Phe	Ser	Leu	Leu	Gln	Ile	Gly	Gln	290	295	300
Arg	Ile	Val	Cys	Leu	Val	Leu	Asp	Lys	Ser	Gly	Ser	Met	Ala	Thr	Gly	305	310	315
Asn	Arg	Leu	Asn	Arg	Leu	Asn	Gln	Ala	Gly	Gln	Leu	Phe	Leu	Leu	Gln	325	330	335
Thr	Val	Glu	Leu	Gly	Ser	Trp	Val	Gly	Met	Val	Thr	Phe	Asp	Ser	Ala	340	345	350
Ala	His	Val	Gln	Ser	Glu	Leu	Ile	Gln	Ile	Asn	Ser	Gly	Ser	Asp	Arg	355	360	365
Asp	Thr	Leu	Ala	Lys	Arg	Leu	Pro	Ala	Ala	Ala	Ser	Gly	Gly	Thr	Ser	370	375	380
Ile	Cys	Ser	Gly	Leu	Arg	Ser	Ala	Phe	Thr	Val	Ile	Arg	Lys	Lys	Tyr	385	390	395
Pro	Thr	Asp	Gly	Ser	Glu	Ile	Val	Leu	Leu	Thr	Asp	Gly	Glu	Asp	Asn	405	410	415



Thr	Ile	Ser	Gly	Cys	Phe	Asn	Glu	Val	Lys	Gln	Ser	Gly	Ala	Ile	Ile	420	425	430	
His	Thr	Val	Ala	Leu	Gly	Pro	Ser	Ala	Ala	Gln	Glu	Leu	Glu	Glu	Leu	435	440	445	
Ser	Lys	Met	Thr	Gly	Gly	Leu	Gln	Thr	Tyr	Ala	Ser	Asp	Gln	Val	Gln	450	455	460	
Asn	Asn	Gly	Leu	Ile	Asp	Ala	Phe	Gly	Ala	Leu	Ser	Ser	Gly	Asn	Gly	465	470	475	480
Ala	Val	Ser	Gln	Arg	Ser	Ile	Gln	Leu	Glu	Ser	Lys	Gly	Leu	Thr	Leu	485	490	495	
Gln	Asn	Ser	Gln	Trp	Met	Asn	Gly	Thr	Val	Ile	Val	Asp	Ser	Thr	Val	500	505	510	
Gly	Lys	Asp	Thr	Leu	Phe	Leu	Ile	Thr	Trp	Thr	Thr	Gln	Pro	Pro	Gln	515	520	525	
Ile	Leu	Leu	Trp	Asp	Pro	Ser	Gly	Gln	Lys	Gln	Gly	Gly	Phe	Val	Val	530	535	540	
Asp	Lys	Asn	Thr	Lys	Met	Ala	Tyr	Leu	Gln	Ile	Pro	Gly	Ile	Ala	Lys	545	550	555	560
Val	Gly	Thr	Trp	Lys	Tyr	Ser	Leu	Gln	Ala	Ser	Ser	Gln	Thr	Leu	Thr	565	570	575	
Leu	Thr	Val	Thr	Ser	Arg	Ala	Ser	Asn	Ala	Thr	Leu	Pro	Pro	Ile	Thr	580	585	590	
Val	Thr	Ser	Lys	Thr	Asn	Lys	Asp	Thr	Ser	Lys	Phe	Pro	Ser	Pro	Leu	595	600	605	
Val	Val	Tyr	Ala	Asn	Ile	Arg	Gln	Gly	Ala	Ser	Pro	Ile	Leu	Arg	Ala	610	615	620	
Ser	Val	Thr	Ala	Leu	Ile	Glu	Ser	Val	Asn	Gly	Lys	Thr	Val	Thr	Leu	625	630	635	640
Glu	Leu	Leu	Asp	Asn	Gly	Ala	Gly	Ala	Asp	Ala	Thr	Lys	Asp	Asp	Gly	645	650	655	
Val	Tyr	Ser	Arg	Tyr	Phe	Thr	Thr	Tyr	Asp	Thr	Asn	Gly	Arg	Tyr	Ser	660	665	670	
Val	Lys	Val	Arg	Ala	Leu	Gly	Gly	Val	Asn	Ala	Ala	Arg	Arg	Arg	Val	675	680	685	
Ile	Pro	Gln	Gln	Ser	Gly	Ala	Leu	Tyr	Ile	Pro	Gly	Trp	Ile	Glu	Asn	690	695	700	
Asp	Glu	Ile	Gln	Trp	Asn	Pro	Pro	Arg	Pro	Glu	Ile	Asn	Lys	Asp	Asp	705	710	715	720

Val Gln His Lys Gln Val Cys Phe Ser Arg Thr Ser Ser Gly Gly Ser  
 725 730 735  
 Phe Val Ala Ser Asp Val Pro Asn Ala Pro Ile Pro Asp Leu Phe Pro  
 740 745 750  
 Pro Gly Gln Ile Thr Asp Leu Lys Ala Glu Ile His Gly Gly Ser Leu  
 755 760 765  
 Ile Asn Leu Thr Trp Thr Ala Pro Gly Asp Asp Tyr Asp His Gly Thr  
 770 775 780  
 Ala His Lys Tyr Ile Ile Arg Ile Ser Thr Ser Ile Leu Asp Leu Arg  
 785 790 795 800  
 Asp Lys Phe Asn Glu Ser Leu Gln Val Asn Thr Thr Ala Leu Ile Pro  
 805 810 815  
 Lys Glu Ala Asn Ser Glu Glu Val Phe Leu Phe Lys Pro Glu Asn Ile  
 820 825 830  
 Thr Phe Glu Asn Gly Thr Asp Leu Phe Ile Ala Ile Gln Ala Val Asp  
 835 840 845  
 Lys Val Asp Leu Lys Ser Glu Ile Ser Asn Ile Ala Arg Val Ser Leu  
 850 855 860  
 Phe Ile Pro Pro Gln Thr Pro Pro Glu Thr Pro Ser Pro Asp Glu Thr  
 865 870 875 880  
 Ser Ala Pro Cys Pro Asn Ile His Ile Asn Ser Thr Ile Pro Gly Ile  
 885 890 895  
 His Ile Leu Lys Ile Met Trp Lys Trp Ile Gly Glu Leu Gln Leu Ser  
 900 905 910  
 Ile Ala

<210> 2055  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 2055  
 Met Ala Ser Cys Gly Leu Thr Gly Ala Ser Leu Pro Pro Cys Cys Cys  
 1 5 10 15  
 Ser Ser Phe Leu Ala Ala Leu Lys Ser Met Phe Trp Gly Leu Gly Ser  
 20 25 30  
 Leu Leu Trp Ser Leu Val Gly Ile Leu Ser Pro Ile Ser Ser Cys Phe  
 35 40 45

Cys Val Tyr Thr Cys Leu Thr Pro Gly Ser Ser Ser Leu Phe Pro Arg  
50 55 60

Ala Val Thr Gln Lys Leu Glu Gln Ser Val Pro Thr Lys Ala Leu Trp  
65 70 75 80

Gly Trp Met

<210> 2056  
<211> 68  
<212> PRT  
<213> Homo sapiens

<400> 2056  
Met Ala Thr Val Gly Leu Ser Trp Lys Lys Glu Leu Val Ile Leu Leu  
1 5 10 15

Val Gly Pro Gly Ala Ala Ala Leu Gln Pro Thr His Thr Cys Cys Ser  
20 25 30

Leu Pro Ser Leu Ser Ser Leu Phe Pro Leu Arg Leu Asn Thr Lys Thr  
35 40 45

Ser Pro Lys Thr Thr Arg Thr Asn Leu Tyr Leu Leu Ser Ile Ala Pro  
50 55 60

Leu Ser His Leu  
65

<210> 2057  
<211> 73  
<212> PRT  
<213> Homo sapiens

<400> 2057  
Met Glu Leu Leu Lys Cys Ser Trp Gln Leu Phe Phe Ser Phe Leu Thr  
1 5 10 15

His Cys Ser Ala Ser Thr Ile Val Trp Leu Phe Val Gln His Arg Leu  
20 25 30

Ser Gln Ser His Asn Lys Pro Phe Phe Gly Ile Leu Gln Arg Cys His  
35 40 45

Ser Trp His Leu Asn Arg Glu Ser Phe Val Pro Asn Gln Ser Phe Ser  
50 55 60

Ile Tyr Glu Ser Cys Ser Ile Arg Lys  
65 70

<210> 2058  
<211> 85  
<212> PRT  
<213> Homo sapiens

<400> 2058  
Met Gln Val Phe Phe Leu Ser Glu Ile Gly Met Leu Trp Val Val Val  
1 5 10 15  
Lys Met Ala His Ser Ala Met Leu Val Ser His Thr Gln Asp Pro Thr  
20 25 30  
Pro Ser Arg Trp Pro Cys Ser Leu Ala Gln Ser Ile Leu Leu Thr Cys  
35 40 45  
Ser Pro Gln His Arg Phe Ser Leu Glu Arg Lys Ile Gln Leu Pro Pro  
50 55 60  
Arg Arg Trp Trp Ala Glu Gly Arg Glu Gly Cys Trp Val Arg Glu Arg  
65 70 75 80  
Val Gly Glu Arg Thr  
85

<210> 2059  
<211> 51  
<212> PRT  
<213> Homo sapiens

<400> 2059  
Met Leu Thr Leu Thr His Phe Val Ser Tyr Asp Tyr Phe Ile Val Lys  
1 5 10 15  
Arg Leu Val Gly Trp Leu Val Gly Trp Leu Val Cys Phe Val Leu Val  
20 25 30  
Ser Pro Phe Ile His Ser Leu Ser Thr Asn Tyr Asn Phe Leu Cys Phe  
35 40 45  
Met Cys Gly  
50

<210> 2060  
<211> 354  
<212> PRT  
<213> Homo sapiens

<400> 2060  
Met Ala Pro Ala Lys Ala Thr Asn Val Val Arg Leu Leu Leu Gly Ser  
1 5 10 15  
Thr Ala Leu Trp Leu Ser Gln Leu Gly Ser Gly Thr Val Ala Ala Ser  
20 25 30

Lys	Ser	Val	Thr	Ala	His	Leu	Ala	Ala	Lys	Trp	Pro	Glu	Thr	Pro	Leu	35	40	45	
Leu	Leu	Glu	Ala	Ser	Glu	Phe	Met	Ala	Glu	Glu	Ser	Asn	Glu	Lys	Phe	50	55	60	
Trp	Gln	Phe	Leu	Glu	Thr	Val	Gln	Glu	Leu	Ala	Ile	Tyr	Lys	Gln	Thr	65	70	75	80
Glu	Ser	Asp	Tyr	Ser	Tyr	Tyr	Asn	Leu	Ile	Leu	Lys	Lys	Ala	Gly	Gln	85	90	95	
Phe	Leu	Asp	Asn	Leu	His	Ile	Asn	Leu	Leu	Lys	Phe	Ala	Phe	Ser	Ile	100	105	110	
Arg	Ala	Tyr	Ser	Pro	Ala	Ile	Gln	Met	Phe	Gln	Gln	Ile	Ala	Ala	Asp	115	120	125	
Glu	Pro	Pro	Pro	Asp	Gly	Cys	Asn	Ala	Phe	Val	Val	Ile	His	Lys	Lys	130	135	140	
His	Thr	Cys	Lys	Ile	Asn	Glu	Ile	Lys	Lys	Leu	Leu	Lys	Lys	Ala	Ala	145	150	155	160
Ser	Arg	Thr	Arg	Pro	Tyr	Leu	Phe	Lys	Gly	Asp	His	Lys	Phe	Pro	Thr	165	170	175	
Asn	Lys	Glu	Asn	Leu	Pro	Val	Val	Ile	Leu	Tyr	Ala	Glu	Met	Gly	Thr	180	185	190	
Arg	Thr	Phe	Ser	Ala	Phe	His	Lys	Val	Leu	Ser	Glu	Lys	Ala	Gln	Asn	195	200	205	
Glu	Glu	Ile	Leu	Tyr	Val	Leu	Arg	His	Tyr	Ile	Gln	Lys	Pro	Ser	Ser	210	215	220	
Arg	Lys	Met	Tyr	Leu	Ser	Gly	Tyr	Gly	Val	Glu	Leu	Ala	Ile	Lys	Ser	225	230	235	240
Thr	Glu	Tyr	Lys	Ala	Leu	Asp	Asp	Thr	Gln	Val	Lys	Thr	Val	Thr	Asn	245	250	255	
Thr	Thr	Val	Glu	Asp	Glu	Thr	Glu	Thr	Asn	Glu	Val	Gln	Gly	Phe	Leu	260	265	270	
Phe	Gly	Lys	Leu	Lys	Glu	Ile	Tyr	Ser	Asp	Leu	Arg	Asp	Asn	Leu	Thr	275	280	285	
Ala	Phe	Gln	Lys	Tyr	Leu	Ile	Glu	Ser	Asn	Lys	Gln	Met	Met	Pro	Leu	290	295	300	
Lys	Val	Trp	Glu	Leu	Gln	Asp	Leu	Ser	Phe	Gln	Ala	Ala	Ser	Gln	Ile	305	310	315	320
Met	Ser	Ala	Pro	Val	Tyr	Asp	Ala	Ile	Lys	Leu	Met	Lys	Asp	Ile	Ser	325	330	335	

Gln Asn Phe Pro Ile Lys Ala Arg Val Gln Met Ile Gly Asn Val Leu  
340 345 350

Ile Gly

<210> 2061  
<211> 157  
<212> PRT  
<213> Homo sapiens

<400> 2061  
Met Gln Ala Pro Arg Ala Ala Leu Val Phe Ala Leu Val Ile Ala Leu  
1 5 10 15  
Val Pro Val Gly Arg Gly Asn Tyr Glu Glu Leu Glu Asn Ser Gly Asp  
20 25 30  
Thr Thr Val Glu Ser Glu Arg Pro Asn Lys Val Thr Ile Pro Ser Thr  
35 40 45  
Phe Ala Ala Val Thr Ile Lys Glu Thr Leu Asn Ala Asn Ile Asn Ser  
50 55 60  
Thr Asn Phe Ala Pro Asp Glu Asn Gln Leu Glu Phe Ile Leu Met Val  
65 70 75 80  
Leu Ile Pro Leu Ile Leu Leu Val Leu Leu Leu Leu Ser Val Val Phe  
85 90 95  
Leu Ala Thr Tyr Tyr Lys Arg Lys Arg Thr Lys Gln Glu Pro Ser Ser  
100 105 110  
Gln Gly Ser Gln Ser Ala Leu Gln Thr Cys Glu Tyr Tyr Pro Lys Thr  
115 120 125  
Cys Leu Gln Val Gly Val Gly Leu Glu Lys Glu Gln Arg Cys Phe Lys  
130 135 140  
Ile Lys Gln Gln Gly Leu His Ile Ile Val Ser Asp Lys  
145 150 155

<210> 2062  
<211> 67  
<212> PRT  
<213> Homo sapiens

<400> 2062  
Met Val Leu Gly Phe Val Leu Leu Leu Phe Asn Met Gly Gly Thr Phe  
1 5 10 15  
Ser Asp Gly Arg Lys Glu Arg Arg Arg Thr Thr Phe Leu Arg Cys Cys



1	5	10	15
His Lys Arg Val Val Ile Gln Leu Arg Glu Gln Leu Ser Leu Glu Ser	20	25	30
Arg Asp Lys Cys Tyr Leu Ile Gln Lys Leu Thr Glu Ala Gln Arg Asp	35	40	45
Met Arg Asn	50		

<210> 2066  
 <211> 366  
 <212> PRT  
 <213> Homo sapiens

<400> 2066
Met Ala Cys Leu Lys Thr Gln Arg Ala Pro Lys Ala Phe Leu Leu Leu
1 5 10 15
Pro Leu Leu Leu Tyr Phe Ala Gly Leu Ser Lys Leu Thr Gln Leu Gln
20 25 30
Val Cys Ser Gly Thr Asp Glu Asp Pro Asp Asp Lys Asn Ala Pro Phe
35 40 45
Arg Gln Arg Pro Phe Cys Lys Tyr Lys Gly His Thr Ala Asp Leu Leu
50 55 60
Asp Leu Ser Trp Ser Lys Asn Tyr Phe Leu Leu Ser Ser Ser Met Asp
65 70 75 80
Lys Thr Val Arg Leu Trp His Ile Ser Arg Arg Glu Cys Leu Cys Cys
85 90 95
Phe Gln His Ile Asp Phe Val Thr Ala Ile Ala Phe His Pro Arg Asp
100 105 110
Asp Arg Tyr Phe Leu Ser Gly Ser Leu Asp Gly Lys Leu Arg Leu Trp
115 120 125
Asn Ile Pro Asp Lys Lys Val Ala Leu Trp Asn Glu Val Asp Gly Gln
130 135 140
Thr Lys Leu Ile Thr Ala Ala Asn Phe Cys Gln Asn Gly Lys Tyr Ala
145 150 155 160
Val Ile Gly Thr Tyr Asp Gly Arg Cys Ile Phe Tyr Asp Thr Glu His
165 170 175
Leu Lys Tyr His Thr Gln Ile His Val Arg Ser Thr Arg Gly Arg Asn
180 185 190
Lys Val Gly Arg Lys Ile Thr Gly Ile Glu Pro Leu Pro Gly Glu Asn
195 200 205



Lys Ile Leu Val Thr Ser Asn Asp Ser Arg Ile Arg Leu Tyr Asp Leu  
 210 215 220  
 Arg Asp Leu Ser Leu Ser Met Lys Tyr Lys Gly Tyr Val Asn Ser Ser  
 225 230 235 240  
 Ser Gln Ile Lys Ala Ser Phe Ser His Asp Phe Thr Tyr Leu Val Ser  
 245 250 255  
 Gly Ser Glu Asp Lys Tyr Val Tyr Ile Trp Ser Thr Tyr His Asp Leu  
 260 265 270  
 Ser Lys Phe Thr Ser Val Arg Arg Asp Arg Asn Asp Phe Trp Glu Gly  
 275 280 285  
 Ile Lys Ala His Asn Ala Val Val Thr Ser Ala Ile Phe Ala Pro Asn  
 290 295 300  
 Pro Ser Leu Met Leu Ser Leu Asp Val Gln Ser Glu Lys Ser Glu Gly  
 305 310 315 320  
 Asn Glu Lys Ser Glu Asp Ala Glu Val Leu Asp Ala Thr Pro Ser Gly  
 325 330 335  
 Ile Met Lys Thr Asp Asn Thr Glu Val Leu Leu Ser Ala Asp Phe Thr  
 340 345 350  
 Gly Ala Ile Lys Val Phe Val Asn Lys Arg Lys Asn Val Ser  
 355 360 365

<210> 2067  
 <211> 187  
 <212> PRT  
 <213> Homo sapiens

<400> 2067

Met Val Ala Ala Thr Val Ala Ala Ala Trp Leu Leu Leu Trp Ala Ala  
 1 5 10 15  
 Ala Cys Ala Gln Gln Glu Gln Asp Phe Tyr Asp Phe Lys Ala Val Asn  
 20 25 30  
 Ile Arg Gly Lys Leu Val Ser Leu Glu Lys Tyr Arg Gly Ser Val Ser  
 35 40 45  
 Leu Val Val Asn Val Ala Ser Glu Cys Gly Phe Thr Asp Gln His Tyr  
 50 55 60  
 Arg Ala Leu Gln Gln Leu Gln Arg Asp Leu Gly Pro His His Phe Asn  
 65 70 75 80  
 Val Leu Ala Phe Pro Cys Asn Gln Phe Gly Gln Gln Glu Pro Asp Ser  
 85 90 95

Asn	Lys	Glu	Ile	Glu	Ser	Phe	Ala	Arg	Arg	Thr	Tyr	Ser	Val	Ser	Phe
			100					105					110		
Pro	Met	Phe	Ser	Lys	Ile	Ala	Val	Thr	Gly	Thr	Gly	Ala	His	Pro	Ala
		115					120					125			
Phe	Lys	Tyr	Leu	Ala	Gln	Thr	Ser	Gly	Lys	Glu	Pro	Thr	Trp	Asn	Phe
	130					135					140				
Trp	Lys	Tyr	Leu	Val	Ala	Pro	Asp	Gly	Lys	Val	Val	Gly	Ala	Trp	Asp
145					150					155					160
Pro	Thr	Val	Ser	Val	Glu	Glu	Val	Arg	Pro	Gln	Ile	Thr	Ala	Leu	Val
				165					170					175	
Arg	Lys	Leu	Ile	Leu	Leu	Lys	Arg	Glu	Asp	Leu					
			180					185							

<210> 2068  
 <211> 346  
 <212> PRT  
 <213> Homo sapiens

<400> 2068

Met	Asp	Pro	Ala	Arg	Lys	Ala	Gly	Ala	Gln	Ala	Met	Ile	Trp	Thr	Ala
1				5					10					15	
Gly	Trp	Leu	Leu	Leu	Leu	Leu	Leu	Arg	Gly	Gly	Ala	Gln	Ala	Leu	Glu
			20					25					30		
Cys	Tyr	Ser	Cys	Val	Gln	Lys	Ala	Asp	Asp	Gly	Cys	Ser	Pro	Asn	Lys
		35					40					45			
Met	Lys	Thr	Val	Lys	Cys	Ala	Pro	Gly	Val	Asp	Val	Cys	Thr	Glu	Ala
	50					55					60				
Val	Gly	Ala	Val	Glu	Thr	Ile	His	Gly	Gln	Phe	Ser	Leu	Ala	Val	Arg
	65				70					75					80
Gly	Cys	Gly	Ser	Gly	Leu	Pro	Gly	Lys	Asn	Asp	Arg	Gly	Leu	Asp	Leu
				85					90					95	
His	Gly	Leu	Leu	Ala	Phe	Ile	Gln	Leu	Gln	Gln	Cys	Ala	Gln	Asp	Arg
			100					105					110		
Cys	Asn	Ala	Lys	Leu	Asn	Leu	Thr	Ser	Arg	Ala	Leu	Asp	Pro	Ala	Gly
		115					120					125			
Asn	Glu	Ser	Ala	Tyr	Pro	Pro	Asn	Gly	Val	Glu	Cys	Tyr	Ser	Cys	Val
	130					135					140				
Gly	Leu	Ser	Arg	Glu	Ala	Cys	Gln	Gly	Thr	Ser	Pro	Pro	Val	Val	Ser
145					150					155					160
Cys	Tyr	Asn	Ala	Ser	Asp	His	Val	Tyr	Lys	Gly	Cys	Phe	Asp	Gly	Asn

165							170					175				
Val	Thr	Leu	Thr	Ala	Ala	Asn	Val	Thr	Val	Ser	Leu	Pro	Val	Arg	Gly	
			180						185					190		
Cys	Val	Gln	Asp	Glu	Phe	Cys	Thr	Arg	Asp	Gly	Val	Thr	Gly	Pro	Gly	
		195						200				205				
Phe	Thr	Leu	Ser	Gly	Ser	Cys	Cys	Gln	Gly	Ser	Arg	Cys	Asn	Ser	Asp	
	210					215					220					
Leu	Arg	Asn	Lys	Thr	Tyr	Phe	Ser	Pro	Arg	Ile	Pro	Pro	Leu	Val	Arg	
225					230					235					240	
Leu	Pro	Pro	Pro	Glu	Pro	Thr	Thr	Val	Ala	Ser	Thr	Thr	Ser	Val	Thr	
				245					250					255		
Thr	Ser	Thr	Ser	Ala	Pro	Val	Arg	Pro	Thr	Ser	Thr	Thr	Lys	Pro	Met	
			260					265						270		
Pro	Ala	Pro	Thr	Ser	Gln	Thr	Pro	Arg	Gln	Gly	Val	Glu	His	Glu	Ala	
		275						280				285				
Ser	Arg	Asp	Glu	Glu	Pro	Arg	Leu	Thr	Gly	Gly	Ala	Ala	Gly	His	Gln	
	290					295					300					
Asp	Arg	Ser	Asn	Ser	Gly	Gln	Tyr	Pro	Ala	Lys	Gly	Gly	Pro	Gln	Gln	
305					310					315					320	
Pro	His	Asn	Lys	Gly	Cys	Val	Ala	Pro	Thr	Ala	Gly	Leu	Ala	Ala	Leu	
				325					330					335		
Leu	Leu	Ala	Val	Ala	Ala	Gly	Val	Leu	Leu							
			340					345								

<210> 2069  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 2069															
Met	Arg	Leu	Ser	Arg	Ala	Ala	His	Asn	Leu	Gln	Thr	Ile	Leu	Tyr	Ser
1				5					10					15	
Val	Phe	Cys	Leu	Cys	Leu	His	Val	Ala	Met	Met	Asp	Arg	Ser	Pro	Ser
			20					25					30		
Ser	Ile	Leu	Ala	Leu	Trp	Arg	Ser	Gly	Ser	Cys	Ser	Val	Glu	Ile	
		35					40					45			

<210> 2070  
 <211> 102  
 <212> PRT

<213> Homo sapiens

<400> 2070

Met	Leu	Leu	His	Trp	Leu	Leu	Gln	Asn	Glu	Leu	Gln	Ser	Ala	Val	Ala	
1				5					10					15		
Ser	Cys	Leu	Val	Ser	Ile	Ser	Leu	Gly	Lys	Glu	Asp	Phe	Leu	Gln	Thr	
			20					25					30			
Gly	Cys	Lys	Val	Lys	Ser	His	Val	Gly	Val	Ile	His	Arg	Arg	Glu	Lys	
		35					40					45				
Gly	Gly	Ala	Ile	Tyr	Leu	Pro	Asn	Ser	Leu	Val	Leu	Pro	Thr	Ser	His	
	50					55					60					
Trp	Ile	Arg	Leu	Ser	Tyr	Arg	Asn	Arg	His	Arg	Gly	Phe	Ile	Leu	Trp	
65					70					75					80	
Thr	Leu	Met	Ser	Thr	Trp	Glu	Ala	Arg	Cys	His	Gly	Pro	Cys	Val	Met	
				85					90					95		
Phe	Asp	Phe	Asn	Gln	Lys											
			100													

<210> 2071

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2071

Met	Val	Thr	Leu	Ala	Glu	Leu	Leu	Val	Leu	Leu	Ala	Ala	Leu	Leu	Ala	
1				5					10					15		
Thr	Val	Ser	Gly	Tyr	Phe	Val	Ser	Ile	Asp	Ala	His	Ala	Glu	Glu	Cys	
			20					25					30			
Phe	Phe	Glu	Arg	Val	Thr	Ser	Gly	Thr	Lys	Met	Gly	Leu	Ile	Phe	Glu	
		35					40					45				
Val	Ala	Glu	Gly	Gly	Phe	Leu	Asp	Ile	Asp	Val	Glu	Val	Arg	Ala	Ser	
	50					55					60					
Cys	Pro	Gln	Leu	Arg	Leu	Gly	Arg	Val	Ala	Thr	Arg	Gly	Leu	Val	Ala	
65					70					75					80	
Pro	Gly	Thr	Gly	Ala	Gly	Pro	Val	Trp	Gly	Val	Gly	Leu	Glu	Val	Ala	
				85					90					95		
Val	Arg	Val	Leu	Glu	Lys	Pro	Arg	Pro	Pro	Pro	Pro	Ala	Pro	Pro	Arg	
			100					105					110			

Pro Arg Arg Pro Pro Asn Gly Pro Phe Ser Arg Asp Leu Pro Gly Phe  
115 120 125

Arg Asp Pro Leu Gly Ala Pro Ser Ala Xaa Leu Val Ala Leu Gly Phe  
130 135 140

<210> 2072  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 2072  
Met Gly Ser Ser Leu Ala Phe Ile Leu Phe Leu Pro  
1 5 10

<210> 2073  
<211> 201  
<212> PRT  
<213> Homo sapiens

<400> 2073  
Met Val Thr Leu Ala Glu Leu Leu Val Leu Leu Ala Ala Leu Leu Ala  
1 5 10 15

Thr Val Ser Gly Tyr Phe Val Ser Ile Asp Ala His Ala Glu Glu Cys  
20 25 30

Phe Phe Glu Arg Val Thr Ser Gly Thr Lys Met Gly Leu Ile Phe Glu  
35 40 45

Val Ala Glu Gly Gly Phe Leu Asp Ile Asp Val Glu Ile Thr Gly Pro  
50 55 60

Asp Asn Lys Gly Ile Tyr Lys Gly Asp Arg Glu Ser Ser Gly Lys Tyr  
65 70 75 80

Thr Phe Ala Ala His Met Asp Gly Thr Tyr Lys Phe Cys Phe Ser Asn  
85 90 95

Arg Met Ser Thr Met Thr Pro Lys Ile Val Met Phe Thr Ile Asp Ile  
100 105 110

Gly Glu Ala Pro Lys Gly Gln Asp Met Glu Thr Glu Ala His Gln Asn  
115 120 125

Lys Leu Glu Glu Met Ile Asn Glu Leu Ala Val Ala Met Thr Ala Val  
130 135 140

Lys His Glu Gln Glu Tyr Met Glu Val Arg Glu Arg Ile His Arg Ala



Gly	Glu	Ala	Pro	Lys	Gly	Gln	Asp	Met	Glu	Thr	Glu	Ala	His	Gln	Asn
		115					120					125			
Lys	Leu	Glu	Glu	Met	Ile	Asn	Glu	Leu	Ala	Val	Ala	Met	Thr	Ala	Val
	130					135					140				
Lys	His	Glu	Gln	Glu	Tyr	Met	Glu	Val	Arg	Glu	Arg	Ile	His	Arg	Ala
145					150					155					160
Ile	Asn	Asp	Asn	Thr	Asn	Ser	Arg	Val	Val	Leu	Trp	Ser	Phe	Phe	Glu
				165					170					175	
Ala	Leu	Val	Leu	Val	Ala	Met	Thr	Leu	Gly	Gln	Ile	Tyr	Tyr	Leu	Lys
			180					185					190		
Arg	Phe	Phe	Glu	Val	Arg	Arg	Val	Val							
		195					200								

<210> 2076  
 <211> 201  
 <212> PRT  
 <213> Homo sapiens

<400> 2076

Met	Val	Thr	Leu	Ala	Glu	Leu	Leu	Val	Leu	Leu	Ala	Ala	Leu	Leu	Ala
1				5					10					15	
Thr	Val	Ser	Gly	Tyr	Phe	Val	Ser	Ile	Asp	Ala	His	Ala	Glu	Glu	Cys
			20					25					30		
Phe	Phe	Glu	Arg	Val	Thr	Ser	Gly	Thr	Lys	Met	Gly	Leu	Ile	Phe	Glu
		35					40					45			
Val	Ala	Glu	Gly	Gly	Phe	Leu	Asp	Ile	Asp	Val	Glu	Ile	Thr	Gly	Pro
	50					55					60				
Asp	Asn	Lys	Gly	Ile	Tyr	Lys	Gly	Asp	Arg	Glu	Ser	Ser	Gly	Lys	Tyr
65				70						75					80
Thr	Phe	Ala	Ala	His	Met	Asp	Gly	Thr	Tyr	Lys	Phe	Cys	Phe	Ser	Asn
				85					90					95	
Arg	Met	Ser	Thr	Met	Thr	Pro	Lys	Ile	Val	Met	Phe	Thr	Ile	Asp	Ile
			100					105					110		
Gly	Glu	Ala	Pro	Lys	Gly	Gln	Asp	Met	Glu	Thr	Glu	Ala	His	Gln	Asn
		115					120					125			
Lys	Leu	Glu	Glu	Met	Ile	Asn	Glu	Leu	Ala	Val	Ala	Met	Thr	Ala	Val
	130					135					140				
Lys	His	Glu	Gln	Glu	Tyr	Met	Glu	Val	Arg	Glu	Arg	Ile	His	Arg	Ala
145					150					155					160
Ile	Asn	Asp	Asn	Thr	Asn	Ser	Arg	Val	Val	Leu	Trp	Ser	Phe	Phe	Glu



	165		170		175
Ala	Leu	Val	Leu	Val	Ala
	180				Met
			Thr	Leu	Gly
				185	Gln
					Ile
					Tyr
					Tyr
					190
					Leu
					Lys

  

Arg	Phe	Phe	Glu	Val	Arg
	195				Arg
					Val
					Val
					200

<210> 2077  
 <211> 587  
 <212> PRT  
 <213> Homo sapiens

<400> 2077

Met	Trp	Arg	Leu	Gly	Cys	Leu	Ile	Trp	Glu	Val	Phe	Asn	Gly	Pro	Leu
1				5					10					15	

  

Pro	Arg	Ala	Ala	Ala	Leu	Arg	Asn	Pro	Gly	Lys	Ile	Pro	Lys	Thr	Leu
			20					25					30		

  

Val	Pro	His	Tyr	Cys	Glu	Leu	Val	Gly	Ala	Asn	Pro	Lys	Val	Arg	Pro
		35					40					45			

  

Asn	Pro	Ala	Arg	Phe	Leu	Gln	Asn	Cys	Arg	Ala	Pro	Gly	Gly	Phe	Met
50						55					60				

  

Ser	Asn	Arg	Phe	Val	Glu	Thr	Asn	Leu	Phe	Leu	Glu	Glu	Ile	Gln	Ile
65					70					75				80	

  

Lys	Glu	Pro	Ala	Glu	Lys	Gln	Lys	Phe	Phe	Gln	Glu	Leu	Ser	Lys	Ser
				85					90					95	

  

Leu	Asp	Ala	Phe	Pro	Glu	Asp	Phe	Cys	Arg	His	Lys	Val	Leu	Pro	Gln
		100						105					110		

  

Leu	Leu	Thr	Ala	Phe	Glu	Phe	Gly	Asn	Ala	Gly	Ala	Val	Val	Leu	Thr
		115					120					125			

  

Pro	Leu	Phe	Lys	Val	Gly	Lys	Phe	Leu	Ser	Ala	Glu	Glu	Tyr	Gln	Gln
130						135					140				

  

Lys	Ile	Ile	Pro	Val	Val	Val	Lys	Met	Phe	Ser	Ser	Thr	Asp	Arg	Ala
145					150					155					160

  

Met	Arg	Ile	Arg	Leu	Leu	Gln	Gln	Met	Glu	Gln	Phe	Ile	Gln	Tyr	Leu
				165					170					175	

  

Asp	Glu	Pro	Thr	Val	Asn	Thr	Gln	Ile	Phe	Pro	His	Val	Val	His	Gly
			180					185					190		

  

Phe	Leu	Asp	Thr	Asn	Pro	Ala	Ile	Arg	Glu	Gln	Thr	Val	Lys	Ser	Met
		195					200					205			

  

Leu	Leu	Leu	Ala	Pro	Lys	Leu	Asn	Glu	Ala	Asn	Leu	Asn	Val	Glu	Leu
210						215					220				



Met	Lys	His	Phe	Ala	Arg	Leu	Gln	Ala	Lys	Asp	Glu	Gln	Gly	Pro	Ile	225	230	235	240
Arg	Cys	Asn	Thr	Thr	Val	Cys	Leu	Gly	Lys	Ile	Gly	Ser	Tyr	Leu	Ser	245	250	255	
Ala	Ser	Thr	Arg	His	Arg	Val	Leu	Thr	Ser	Ala	Phe	Ser	Arg	Ala	Thr	260	265	270	
Arg	Asp	Pro	Phe	Ala	Pro	Ser	Arg	Val	Ala	Gly	Val	Leu	Gly	Phe	Ala	275	280	285	
Ala	Thr	His	Asn	Leu	Tyr	Ser	Met	Asn	Asp	Cys	Ala	Gln	Lys	Ile	Leu	290	295	300	
Pro	Val	Leu	Cys	Gly	Leu	Thr	Val	Asp	Pro	Glu	Lys	Ser	Val	Arg	Asp	305	310	315	320
Gln	Ala	Phe	Lys	Ala	Ile	Arg	Ser	Phe	Leu	Ser	Lys	Leu	Glu	Ser	Val	325	330	335	
Ser	Glu	Asp	Pro	Thr	Gln	Leu	Glu	Glu	Val	Glu	Lys	Asp	Val	His	Ala	340	345	350	
Ala	Ser	Ser	Pro	Gly	Met	Gly	Gly	Ala	Ala	Ala	Ser	Trp	Ala	Gly	Trp	355	360	365	
Ala	Val	Thr	Gly	Val	Ser	Ser	Leu	Thr	Ser	Lys	Leu	Ile	Arg	Ser	His	370	375	380	
Pro	Thr	Thr	Ala	Pro	Thr	Glu	Thr	Asn	Ile	Pro	Gln	Arg	Pro	Thr	Pro	385	390	395	400
Glu	Gly	His	Trp	Glu	Thr	Gln	Glu	Glu	Asp	Lys	Asp	Thr	Ala	Glu	Asp	405	410	415	
Ser	Ser	Thr	Ala	Asp	Arg	Trp	Asp	Asp	Glu	Asp	Trp	Gly	Ser	Leu	Glu	420	425	430	
Gln	Glu	Ala	Glu	Ser	Val	Leu	Ala	Gln	Gln	Asp	Asp	Trp	Ser	Thr	Gly	435	440	445	
Gly	Gln	Val	Ser	Arg	Ala	Ser	Gln	Val	Ser	Asn	Ser	Asp	His	Lys	Ser	450	455	460	
Ser	Lys	Ser	Pro	Glu	Ser	Asp	Trp	Ser	Ser	Trp	Glu	Ala	Glu	Gly	Ser	465	470	475	480
Trp	Glu	Gln	Gly	Trp	Gln	Glu	Pro	Ser	Ser	Gln	Glu	Pro	Pro	Pro	Asp	485	490	495	
Gly	Thr	Arg	Leu	Ala	Ser	Glu	Tyr	Asn	Trp	Gly	Gly	Pro	Glu	Ser	Ser	500	505	510	
Asp	Lys	Gly	Asp	Pro	Phe	Ala	Thr	Leu	Ser	Ala	Arg	Pro	Ser	Thr	Gln	515	520	525	

Pro Arg Pro Asp Ser Trp Gly Glu Asp Asn Trp Glu Gly Leu Glu Thr  
530 535 540

Asp Ser Arg Gln Val Lys Ala Glu Leu Ala Arg Lys Lys Arg Glu Glu  
545 550 555 560

Arg Arg Arg Glu Met Glu Ala Lys Arg Ala Glu Arg Lys Val Ala Lys  
565 570 575

Gly Pro Met Lys Leu Gly Ala Arg Lys Leu Asp  
580 585

<210> 2078  
<211> 124  
<212> PRT  
<213> Homo sapiens

<400> 2078  
Met Arg Gln Val Ala Pro Ala Arg Arg Ala Gln Leu Glu His Ser Gly  
1 5 10 15

Leu His Ala Ser Leu Cys Leu Leu Ser Leu Leu Ser Leu Leu Pro Thr  
20 25 30

Leu Glu Ala Asn Met Ser Gly Phe His Gln Ala Pro Leu Thr Leu Leu  
35 40 45

Pro Ser Cys Thr Gln Gly Asp Gly Glu Ala Arg Gly His His Thr Gln  
50 55 60

Pro Ser Phe Trp Arg Thr Glu Met Lys Cys Pro Val Glu Ala Leu Leu  
65 70 75 80

Glu His Leu Ala Thr Arg Ala Val Val Gly Arg Asn Gly Asp His Gly  
85 90 95

Ala Gln Gln Glu His Arg Thr Ala Ser Glu Gly Gln Gln Gln Pro Leu  
100 105 110

Ala Glu Ser Ser Pro Trp Trp Gln Pro Pro His Gly  
115 120

<210> 2079  
<211> 74  
<212> PRT  
<213> Homo sapiens

<400> 2079  
Met Ala Leu Phe Ala Trp Leu Cys Leu Ser Ala Val Val Glu Ser Ser  
1 5 10 15

Ser Pro Gly Met Cys Met Ser Lys Cys Val Leu Ile Val Met Pro Arg



Leu Trp Arg Cys Ser Ser Pro Leu Ala Gln Ser Phe Cys Gly Ser Gly  
85 90 95

Ser Gly Trp Pro Arg Pro Ala Cys Ala Leu Pro Leu Cys Pro Pro Pro  
100 105 110

Cys Ala Gly Ala Pro Cys Cys Thr Ala Ser Ala Ala Ala Arg Ala  
115 120 125

Arg Trp Cys Trp Arg Gln Ser Phe Trp Ser Pro Trp Ser Arg Thr Cys  
130 135 140

Pro Pro  
145

<210> 2082  
<211> 30  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2082  
Met Arg Leu Phe Ser Gln Met Leu Lys Ser Trp Met Ala Leu Phe Met  
1 5 10 15

Arg Asn Val Trp Leu Glu Met Thr Ile Ala Thr Xaa Ile Gln  
20 25 30

<210> 2083  
<211> 56  
<212> PRT  
<213> Homo sapiens

<400> 2083  
Met Arg Leu Phe Ser Gln Met Leu Lys Ser Trp Met Ala Leu Phe Met  
1 5 10 15

Arg Asn Val Trp Leu Glu Met Thr Ile Ala Thr Ala His Thr Val Ser  
20 25 30

Thr Val His Trp Arg Lys Trp Thr Lys Met Leu Val Gln Ser Pro Thr  
35 40 45

Gln Val Lys Met Asn Val Ser Gln  
50 55

<210> 2084

<211> 563  
<212> PRT  
<213> Homo sapiens

<400> 2084

Met	Gly	Ser	Leu	Ser	Asn	Tyr	Ala	Leu	Leu	Gln	Leu	Thr	Leu	Thr	Ala	
1				5					10					15		
Phe	Leu	Thr	Ile	Leu	Val	Gln	Pro	Gln	His	Leu	Leu	Ala	Pro	Val	Phe	
			20					25					30			
Arg	Thr	Leu	Ser	Ile	Leu	Thr	Asn	Gln	Ser	Asn	Cys	Trp	Leu	Cys	Glu	
		35					40					45				
His	Leu	Asp	Asn	Ala	Glu	Gln	Pro	Glu	Leu	Val	Phe	Val	Pro	Ala	Ser	
	50					55					60					
Ala	Ser	Thr	Trp	Trp	Thr	Tyr	Ser	Gly	Gln	Trp	Met	Tyr	Glu	Arg	Val	
65					70					75					80	
Trp	Tyr	Pro	Gln	Ala	Glu	Val	Gln	Asn	His	Ser	Thr	Ser	Ser	Tyr	Arg	
				85					90					95		
Lys	Val	Thr	Trp	His	Trp	Glu	Ala	Ser	Met	Glu	Ala	Gln	Gly	Leu	Ser	
			100					105					110			
Phe	Ala	Gln	Val	Arg	Leu	Leu	Glu	Gly	Asn	Phe	Ser	Leu	Cys	Val	Glu	
		115					120					125				
Asn	Lys	Asn	Gly	Ser	Gly	Pro	Phe	Leu	Gly	Asn	Ile	Pro	Lys	Gln	Tyr	
	130					135					140					
Cys	Asn	Gln	Ile	Leu	Trp	Phe	Asp	Ser	Thr	Asp	Gly	Thr	Phe	Met	Pro	
145					150					155					160	
Ser	Ile	Asp	Val	Thr	Asn	Glu	Ser	Arg	Asn	Asp	Asp	Asp	Asp	Pro	Ser	
				165					170					175		
Val	Cys	Leu	Gly	Thr	Arg	Gln	Cys	Ser	Trp	Phe	Ala	Gly	Cys	Thr	Asn	
			180					185					190			
Arg	Thr	Trp	Asn	Ser	Ser	Ala	Val	Pro	Leu	Ile	Gly	Leu	Pro	Asn	Thr	
		195					200					205				
Gln	Asp	Tyr	Lys	Trp	Val	Asp	Arg	Asn	Ser	Gly	Leu	Thr	Trp	Ser	Gly	
	210					215					220					
Asn	Asp	Thr	Cys	Leu	Tyr	Ser	Cys	Gln	Asn	Gln	Thr	Lys	Gly	Leu	Leu	
225					230					235					240	
Tyr	Gln	Leu	Phe	Arg	Asn	Leu	Phe	Cys	Ser	Tyr	Gly	Leu	Thr	Glu	Ala	
				245					250					255		
His	Gly	Lys	Trp	Arg	Cys	Ala	Asp	Ala	Ser	Ile	Thr	Asn	Asp	Lys	Gly	
			260					265					270			
His	Asp	Gly	His	Arg	Thr	Pro	Thr	Trp	Trp	Leu	Thr	Gly	Ser	Asn	Leu	

275					280					285					
Thr	Leu	Ser	Val	Asn	Asn	Ser	Gly	Leu	Phe	Phe	Leu	Cys	Gly	Asn	Gly
	290					295					300				
Val	Tyr	Lys	Gly	Phe	Pro	Pro	Lys	Trp	Ser	Gly	Arg	Cys	Gly	Leu	Gly
	305					310					315				320
Tyr	Leu	Val	Pro	Ser	Leu	Thr	Arg	Tyr	Leu	Thr	Leu	Asn	Ala	Ser	Gln
				325					330					335	
Ile	Thr	Asn	Leu	Arg	Ser	Phe	Ile	His	Lys	Val	Thr	Pro	His	Arg	Cys
			340					345					350		
Thr	Gln	Gly	Asp	Thr	Asp	Asn	Pro	Pro	Leu	Tyr	Cys	Asn	Pro	Lys	Asp
		355					360					365			
Asn	Ser	Thr	Ile	Arg	Ala	Leu	Phe	Pro	Ser	Leu	Gly	Thr	Tyr	Asp	Leu
		370					375					380			
Glu	Lys	Ala	Ile	Leu	Asn	Ile	Ser	Lys	Ala	Met	Glu	Gln	Glu	Phe	Ser
						390					395				400
Ala	Thr	Lys	Gln	Thr	Leu	Glu	Ala	His	Gln	Ser	Lys	Val	Ser	Ser	Leu
				405					410					415	
Ala	Ser	Ala	Ser	Arg	Lys	Asp	His	Val	Leu	Asp	Ile	Pro	Thr	Thr	Gln
			420					425					430		
Arg	Gln	Thr	Ala	Cys	Gly	Thr	Val	Gly	Lys	Gln	Cys	Cys	Leu	Tyr	Ile
		435					440					445			
Asn	Tyr	Ser	Glu	Glu	Ile	Lys	Ser	Asn	Ile	Gln	Arg	Leu	His	Glu	Ala
		450				455					460				
Ser	Glu	Asn	Leu	Lys	Asn	Val	Pro	Leu	Leu	Asp	Trp	Gln	Gly	Ile	Phe
						470					475				480
Ala	Lys	Val	Gly	Asp	Trp	Phe	Arg	Ser	Trp	Gly	Tyr	Val	Leu	Leu	Ile
				485					490					495	
Val	Leu	Phe	Cys	Leu	Phe	Ile	Phe	Val	Leu	Ile	Tyr	Val	Arg	Val	Phe
			500					505					510		
Arg	Lys	Ser	Arg	Arg	Ser	Leu	Asn	Ser	Gln	Pro	Leu	Asn	Leu	Ala	Leu
		515					520					525			
Ser	Pro	Gln	Gln	Ser	Ala	Gln	Leu	Leu	Val	Ser	Glu	Thr	Ser	Cys	Gln
		530				535					540				
Val	Ser	Asn	Arg	Ala	Met	Lys	Gly	Leu	Thr	Thr	His	Gln	Tyr	Asp	Thr
						550					555				560
Ser	Leu	Leu													

<210> 2085  
<211> 599  
<212> PRT  
<213> Homo sapiens

<400> 2085

Met	Glu	Leu	Leu	Gly	Pro	Val	Pro	Pro	Glu	Gln	Gln	Phe	Ile	Asn	Gln	
1				5					10					15		
Lys	Met	Arg	Pro	Gly	Ser	Gly	Met	Leu	Ser	Ile	Arg	Val	Ile	Pro	Asp	
			20					25					30			
Gly	Pro	Thr	Arg	Ala	Leu	Gln	Ile	Thr	Asp	Phe	Cys	His	Arg	Lys	Ser	
		35					40					45				
Ser	Arg	Ser	Tyr	Glu	Val	Asp	Glu	Leu	Pro	Val	Thr	Glu	Gln	Glu	Leu	
	50					55					60					
Gln	Lys	Leu	Lys	Asn	Pro	Asp	Thr	Glu	Gln	Glu	Leu	Glu	Val	Leu	Val	
65					70					75					80	
Arg	Leu	Glu	Gly	Gly	Ile	Gly	Leu	Ser	Leu	Ile	Asn	Lys	Val	Pro	Glu	
				85					90					95		
Glu	Leu	Val	Phe	Ala	Ser	Leu	Thr	Gly	Ile	Asn	Val	His	Tyr	Thr	Gln	
			100					105					110			
Leu	Ala	Thr	Ser	His	Met	Leu	Glu	Leu	Ser	Ile	Gln	Asp	Val	Gln	Val	
		115					120					125				
Asp	Asn	Gln	Leu	Ile	Gly	Thr	Thr	Gln	Pro	Phe	Met	Leu	Tyr	Val	Thr	
	130					135					140					
Pro	Leu	Ser	Asn	Glu	Asn	Glu	Val	Ile	Glu	Thr	Gly	Pro	Ala	Val	Gln	
145					150					155					160	
Val	Asn	Ala	Val	Lys	Phe	Pro	Ser	Lys	Ser	Ala	Leu	Thr	Asn	Ile	Tyr	
				165					170					175		
Lys	His	Leu	Met	Ile	Thr	Ala	Gln	Arg	Phe	Thr	Val	Gln	Ile	Glu	Glu	
			180					185					190			
Lys	Leu	Leu	Leu	Lys	Leu	Leu	Ser	Phe	Phe	Gly	Tyr	Asp	Gln	Ala	Glu	
		195					200					205				
Ser	Glu	Val	Glu	Lys	Tyr	Asp	Glu	Asn	Leu	His	Glu	Lys	Thr	Ala	Glu	
	210					215					220					
Gln	Gly	Gly	Thr	Pro	Ile	Arg	Tyr	Tyr	Phe	Glu	Asn	Leu	Lys	Ile	Ser	
225					230					235					240	
Ile	Pro	Gln	Ile	Lys	Leu	Ser	Val	Phe	Thr	Ser	Asn	Lys	Leu	Pro	Leu	
				245					250					255		
Asp	Leu	Lys	Ala	Leu	Lys	Ser	Thr	Leu	Gly	Phe	Pro	Leu	Ile	Arg	Phe	
			260					265					270			



Glu	Asp	Ala	Val	Ile	Asn	Leu	Asp	Pro	Phe	Thr	Arg	Val	His	Pro	Tyr	275	280	285
Glu	Thr	Lys	Glu	Phe	Ile	Ile	Asn	Asp	Ile	Leu	Lys	His	Phe	Gln	Glu	290	295	300
Glu	Leu	Leu	Ser	Gln	Ala	Ala	Arg	Ile	Leu	Gly	Ser	Val	Asp	Phe	Leu	305	310	315
Gly	Asn	Pro	Met	Gly	Leu	Leu	Asn	Asp	Val	Ser	Glu	Gly	Val	Thr	Gly	325	330	335
Leu	Ile	Lys	Tyr	Gly	Asn	Val	Gly	Gly	Leu	Ile	Arg	Asn	Val	Thr	His	340	345	350
Gly	Val	Ser	Asn	Ser	Ala	Gly	Lys	Phe	Ala	Gly	Thr	Leu	Ser	Asp	Gly	355	360	365
Leu	Gly	Lys	Thr	Met	Asp	Asn	Arg	His	Gln	Ser	Glu	Arg	Glu	Tyr	Ile	370	375	380
Arg	Tyr	His	Ala	Ala	Thr	Ser	Gly	Glu	His	Leu	Val	Ala	Gly	Ile	His	385	390	395
Gly	Leu	Ala	His	Gly	Ile	Ile	Gly	Gly	Leu	Thr	Ser	Val	Ile	Thr	Ser	405	410	415
Thr	Val	Glu	Gly	Val	Lys	Thr	Glu	Gly	Gly	Val	Ser	Gly	Phe	Ile	Ser	420	425	430
Gly	Leu	Gly	Lys	Gly	Leu	Val	Gly	Thr	Val	Thr	Lys	Pro	Val	Ala	Gly	435	440	445
Ala	Leu	Asp	Phe	Ala	Ser	Glu	Thr	Ala	Gln	Ala	Val	Arg	Asp	Thr	Ala	450	455	460
Thr	Leu	Ser	Gly	Pro	Arg	Thr	Gln	Ala	Gln	Arg	Val	Arg	Lys	Pro	Arg	465	470	475
Cys	Cys	Thr	Gly	Pro	Gln	Gly	Leu	Leu	Pro	Arg	Tyr	Ser	Glu	Ser	Gln	485	490	495
Ala	Glu	Gly	Gln	Glu	Gln	Leu	Phe	Lys	Leu	Thr	Asp	Asn	Ile	Gln	Asp	500	505	510
Glu	Phe	Phe	Ile	Ala	Val	Glu	Asn	Ile	Asp	Ser	Tyr	Cys	Val	Leu	Ile	515	520	525
Ser	Ser	Lys	Ala	Val	Tyr	Phe	Leu	Lys	Ser	Gly	Asp	Tyr	Val	Asp	Arg	530	535	540
Glu	Ala	Ile	Phe	Leu	Glu	Val	Lys	Tyr	Asp	Asp	Leu	Leu	Pro	Leu	Pro	545	550	555
Cys	Leu	Gln	Arg	Pro	Trp	Glu	Gly	Val	Cys	Ala	Gly	Asp	Gln	Glu	Ser	565	570	575



Arg Glu His Glu Gln Trp Ser Val His Pro Arg Pro Leu Pro Pro Glu  
580 585 590

Ala His Gly Pro Cys Glu Ile  
595

<210> 2086  
<211> 239  
<212> PRT  
<213> Homo sapiens

<400> 2086

Met Ala Pro Leu Leu Pro Ser Leu Pro Leu His Leu His Thr Ser Leu  
1 5 10 15

Cys Leu Arg Leu Cys Leu Ser Leu Ser Leu Ser Ala Trp Leu Ser Trp  
20 25 30

Ser Leu Pro Leu Cys Val Ser Leu Ser Ala Ser Tyr Pro Ala Trp Arg  
35 40 45

Leu Leu Pro Gln Leu His Gly Arg Ser Arg Glu Gln Arg Tyr Thr Lys  
50 55 60

Leu Ala Asp Trp Gln Tyr Ile Glu Glu Cys Val Gln Ala Ala Ser Pro  
65 70 75 80

Met Pro Leu Phe Gly Asn Gly Asp Ile Leu Ser Phe Glu Asp Ala Asn  
85 90 95

Arg Ala Met Gln Thr Gly Val Thr Gly Ile Met Ile Ala Arg Gly Ala  
100 105 110

Leu Leu Lys Pro Trp Leu Phe Thr Glu Ile Lys Glu Gln Arg His Trp  
115 120 125

Asp Ile Ser Ser Ser Glu Arg Leu Asp Ile Leu Arg Asp Phe Thr Asn  
130 135 140

Tyr Gly Leu Glu His Trp Gly Ser Asp Thr Gln Gly Val Glu Lys Thr  
145 150 155 160

Arg Arg Phe Leu Leu Glu Trp Leu Ser Phe Leu Cys Arg Tyr Val Pro  
165 170 175

Val Gly Leu Leu Glu Arg Leu Pro Gln Arg Ile Asn Glu Arg Pro Pro  
180 185 190

Tyr Tyr Leu Gly Arg Asp Tyr Leu Glu Thr Leu Met Ala Ser Gln Lys  
195 200 205

Ala Ala Asp Trp Ile Arg Ile Ser Glu Met Leu Leu Gly Pro Val Pro  
210 215 220

Pro Ser Phe Ala Phe Leu Pro Lys His Lys Ala Asn Ala Tyr Lys  
225 230 235

<210> 2087  
<211> 127  
<212> PRT  
<213> Homo sapiens

<400> 2087  
Met Ala Gln Tyr Ile Leu Val Ile Ile Leu Ile Ser Phe Cys Ser Asp  
1 5 10 15  
Ser Leu Ser Gly Arg Ala Gln Asn Gly Thr Glu Ile Asn Gln Thr Val  
20 25 30  
Ile Leu Ile Cys Ser Leu Arg Phe Phe Lys Ser Glu Ala Ile Asp Ala  
35 40 45  
Cys Leu Met His Pro His Thr Ala Cys Leu Thr Gly Asp Ala Thr Leu  
50 55 60  
Leu Ser Ser Ser Ala Met Lys His Lys Arg Gln Arg Lys Ser Arg Tyr  
65 70 75 80  
Thr Ser His Arg Glu His Phe Arg Val Pro Gln Arg Trp Trp Gln Glu  
85 90 95  
Ala His Ser Arg Val Ser Ile Arg Val Cys Val Trp Val Ser Gly Ile  
100 105 110  
Ser Val Ala Pro Ile Phe Leu His Cys Ser Glu His Pro Val Leu  
115 120 125

<210> 2088  
<211> 138  
<212> PRT  
<213> Homo sapiens

<400> 2088  
Met Lys Met Met Val Val Leu Leu Met Leu Ser Ser Leu Ser Arg Leu  
1 5 10 15  
Leu Gly Leu Met Arg Pro Ser Ser Leu Arg Gln Tyr Leu Asp Ser Val  
20 25 30  
Pro Leu Pro Pro Cys Gln Glu Gln Gln Pro Lys Ala Ser Ala Glu Leu  
35 40 45  
Asp His Lys Ala Cys Tyr Leu Cys His Ser Leu Leu Met Leu Ala Gly  
50 55 60  
Val Val Val Ser Cys Gln Asp Ile Thr Pro Asp Gln Trp Gly Glu Leu  
65 70 75 80

Gln Leu Leu Cys Met Gln Leu Asp Arg His Ile Ser Thr Gln Ile Arg  
85 90 95

Glu Ser Pro Gln Ala Met His Arg Thr Met Leu Lys Asp Leu Ala Thr  
100 105 110

Gln Thr Tyr Ile Arg Trp Gln Glu Leu Leu Thr His Cys Gln Pro Gln  
115 120 125

Ala Gln Tyr Phe Ser Pro Trp Lys Asp Ile  
130 135

<210> 2089  
<211> 132  
<212> PRT  
<213> Homo sapiens

<400> 2089  
Met Glu Ile Tyr Leu Ser Leu Gly Val Leu Ala Leu Gly Thr Leu Ser  
1 5 10 15

Leu Leu Ala Val Thr Ser Leu Pro Ser Ile Ala Asn Ser Leu Asn Trp  
20 25 30

Arg Glu Phe Ser Phe Val Gln Ser Ser Leu Gly Phe Val Ala Leu Val  
35 40 45

Leu Ser Thr Leu His Thr Leu Thr Tyr Gly Trp Thr Arg Ala Phe Glu  
50 55 60

Glu Ser Arg Tyr Lys Phe Tyr Leu Pro Pro Thr Phe Thr Leu Thr Leu  
65 70 75 80

Leu Val Pro Cys Val Val Ile Leu Ala Lys Ala Leu Phe Leu Leu Pro  
85 90 95

Cys Ile Ser Arg Arg Leu Ala Arg Ile Arg Arg Gly Trp Glu Arg Glu  
100 105 110

Ser Thr Ile Lys Phe Thr Leu Pro Thr Asp His Ala Leu Ala Glu Lys  
115 120 125

Thr Ser His Val  
130

<210> 2090  
<211> 127  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE

<222> (107)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (109)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (116)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2090  
Met Phe Leu Leu Arg Pro Leu Pro Ile Leu Leu Val Thr Gly Gly Gly  
1 5 10 15  
Tyr Ala Gly Tyr Arg Gln Tyr Glu Lys Tyr Arg Glu Arg Glu Leu Glu  
20 25 30  
Lys Leu Gly Leu Glu Ile Pro Pro Lys Leu Ala Gly His Trp Glu Val  
35 40 45  
Ala Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly  
50 55 60  
Arg Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr  
65 70 75 80  
Ser Leu Tyr Ile Trp Thr Phe Gly Val Asn Met Lys Glu Ala Ala Val  
85 90 95  
Glu Asp Leu His His Tyr Arg Asn Leu Ser Xaa Phe Xaa Arg Arg Lys  
100 105 110  
Leu Lys Ala Xaa Gly Pro Ala Cys Leu Trp Pro Ala Gln Arg Asp  
115 120 125

<210> 2091  
<211> 89  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (87)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2091  
Met Phe Leu Leu Arg Pro Leu Pro Ile Leu Leu Val Thr Gly Gly Gly  
1 5 10 15  
Tyr Ala Gly Tyr Arg Gln Tyr Glu Lys Tyr Arg Glu Arg Glu Leu Glu  
20 25 30

Lys Leu Gly Leu Glu Ile Pro Pro Lys Leu Ala Gly His Trp Glu Val  
           35                          40                          45  
 Ala Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly  
       50                          55                          60  
 Arg Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr  
   65                          70                          75                          80  
 Ser Leu Tyr Ile Trp Thr Xaa Gly Gly  
                           85

<210> 2092  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<400> 2092  
 Met Asp Trp Ala Val Leu Thr Val Val Leu Gly Pro Cys Val Pro Gly  
   1                          5                          10                          15  
 Leu Ser Gly Ser Pro Pro Trp Pro Leu Pro Ser Ser His Leu Leu Glu  
                           20                          25                          30  
 Ala Lys Leu Cys Glu Thr Trp His Ser Phe Gln Thr Ser Val Pro Pro  
       35                          40                          45  
 Arg Pro Cys Ala Gly Val Thr Pro Glu Leu Arg Met Ser Ala Arg Ser  
   50                          55                          60  
 Arg Gln Tyr Arg Glu Gly Thr Gln Arg Lys Ala Ser Gln Leu Ser Lys  
   65                          70                          75                          80  
 Asp Arg Asp Arg Leu Trp Ser Gly Arg Ala  
                           85                          90

<210> 2093  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (98)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (100)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2093  
 Met Ala Ala Pro Ala Leu Gly Leu Val Cys Gly Arg Cys Pro Glu Leu

1		5		10		15									
Gly	Leu	Val	Leu	Leu	Leu	Leu	Leu	Ser	Leu	Leu	Cys	Gly	Ala	Ala	
		20				25					30				
Gly	Ser	Gln	Glu	Ala	Gly	Thr	Gly	Ala	Gly	Ala	Gly	Ser	Leu	Ala	Gly
		35				40					45				
Ser	Cys	Gly	Cys	Gly	Thr	Pro	Gln	Arg	Pro	Gly	Ala	His	Gly	Ser	Ser
	50					55					60				
Ala	Ala	Ala	His	Arg	Tyr	Ser	Arg	Glu	Ala	Asn	Ala	Pro	Gly	Pro	Val
65					70					75					80
Pro	Gly	Glu	Arg	Gln	Leu	Ala	His	Ser	Lys	Val	Leu	His	Arg	Phe	Leu
				85					90					95	
Arg	Xaa	Gly	Xaa	Gly	Leu	Leu	Gly	Ser	Trp	Thr	Gly	Leu	Glu		
		100					105					110			

<210> 2094  
 <211> 374  
 <212> PRT  
 <213> Homo sapiens

<400> 2094
Met Ala Ala Pro Ala Leu Gly Leu Val Cys Gly Arg Cys Pro Glu Leu
1 5 10 15
Gly Leu Val Leu Leu Leu Leu Leu Ser Leu Leu Cys Gly Ala Ala
20 25 30
Gly Ser Gln Glu Ala Gly Thr Gly Ala Gly Ala Gly Ser Leu Ala Gly
35 40 45
Ser Cys Gly Cys Gly Thr Pro Gln Arg Pro Gly Ala His Gly Ser Ser
50 55 60
Ala Ala Ala His Arg Tyr Ser Arg Glu Ala Asn Ala Pro Gly Pro Val
65 70 75 80
Pro Gly Glu Arg Gln Leu Ala His Ser Lys Met Val Pro Ile Pro Ala
85 90 95
Gly Val Phe Thr Met Gly Thr Asp Asp Pro Gln Ile Lys Gln Asp Gly
100 105 110
Glu Ala Pro Ala Arg Arg Val Thr Ile Asp Ala Phe Tyr Met Asp Ala
115 120 125
Tyr Glu Val Ser Asn Thr Glu Phe Glu Lys Phe Val Asn Ser Thr Gly
130 135 140
Tyr Leu Thr Glu Ala Glu Lys Phe Gly Asp Ser Phe Val Phe Glu Gly
145 150 155 160

Met Leu Ser Glu Gln Val Lys Thr Asn Ile Gln Gln Ala Val Ala Ala  
 165 170 175  
 Ala Pro Trp Trp Leu Pro Val Lys Gly Ala Asn Trp Arg His Pro Glu  
 180 185 190  
 Gly Pro Asp Ser Thr Ile Leu His Arg Pro Asp His Pro Val Leu His  
 195 200 205  
 Val Ser Trp Asn Asp Ala Val Ala Tyr Cys Thr Trp Ala Gly Lys Arg  
 210 215 220  
 Leu Pro Thr Glu Ala Glu Trp Glu Tyr Ser Cys Arg Gly Gly Leu His  
 225 230 235 240  
 Asn Arg Leu Phe Pro Trp Gly Asn Lys Leu Gln Pro Lys Gly Gln His  
 245 250 255  
 Tyr Ala Asn Ile Trp Gln Gly Glu Phe Pro Val Thr Asn Thr Gly Glu  
 260 265 270  
 Asp Gly Phe Gln Gly Thr Ala Pro Val Asp Ala Phe Pro Pro Asn Gly  
 275 280 285  
 Tyr Gly Leu Tyr Asn Ile Val Gly Asn Ala Trp Glu Trp Thr Ser Asp  
 290 295 300  
 Trp Trp Thr Val His His Ser Val Glu Glu Thr Leu Asn Pro Lys Gly  
 305 310 315 320  
 Pro Pro Ser Gly Lys Asp Arg Val Lys Lys Gly Gly Ser Tyr Met Cys  
 325 330 335  
 His Arg Ser Tyr Cys Tyr Arg Tyr Arg Cys Ala Ala Arg Ser Gln Asn  
 340 345 350  
 Thr Pro Asp Ser Ser Ala Ser Asn Leu Gly Phe Arg Cys Ala Ala Asp  
 355 360 365  
 Arg Leu Pro Thr Met Asp  
 370

<210> 2095  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 2095  
 Met Ser Thr Phe Val Cys Val Cys Val Phe Cys Phe Val Leu Arg Ser  
 1 5 10 15  
 Glu Ala Arg Ala Lys Arg Lys Gln Asp Gln Arg Asn Thr Lys Arg Cys  
 20 25 30

Leu Leu Thr Lys Gly Gln Arg Asp Leu Ser Val Asn Gln Ser Lys Ile  
35 40 45

Asn Arg Thr Ala Asn  
50  
- - -

<210> 2096

<211> 215

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2096

Met Leu Pro Trp Thr Ala Xaa Gly Leu Ala Leu Ser Leu Arg Leu Ala  
1 5 10 15

Leu Ala Arg Ser Gly Ala Glu Arg Gly Pro Pro Ala Ser Ala Pro Arg  
20 25 30

Gly Asp Leu Met Phe Leu Leu Asp Ser Ser Ala Ser Val Ser His Tyr  
35 40 45

Glu Phe Ser Arg Val Arg Glu Phe Val Gly Gln Leu Val Ala Pro Leu  
50 55 60

Pro Leu Gly Thr Gly Ala Leu Arg Ala Ser Leu Val His Val Gly Ser  
65 70 75 80

Arg Pro Tyr Thr Glu Phe Pro Phe Gly Gln His Ser Ser Gly Glu Ala  
85 90 95

Ala Gln Asp Ala Val Arg Ala Ser Ala Gln Arg Met Gly Asp Thr His  
100 105 110

Thr Gly Leu Ala Leu Val Tyr Ala Lys Glu Gln Leu Phe Ala Glu Ala  
115 120 125

Ser Gly Ala Arg Pro Gly Val Pro Lys Val Leu Val Trp Val Thr Asp  
130 135 140

Gly Gly Ser Ser Asp Pro Val Gly Pro Pro Met Gln Glu Leu Lys Asp  
145 150 155 160

Leu Gly Val Thr Val Phe Ile Val Ser Thr Gly Arg Gly Asn Phe Leu  
165 170 175

Glu Leu Ser Ala Ala Ala Ser Ala Pro Ala Glu Lys His Leu His Phe  
180 185 190

Val Asp Val Asp Asp Leu His Ile Ile Val Gln Glu Leu Arg Gly Ser  
195 200 205



Ile Leu Asp Ala Met Arg Pro  
210 215

<210> 2097  
<211> 127  
<212> PRT  
<213> Homo sapiens

<400> 2097  
Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro  
1 5 10 15  
Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe  
20 25 30  
Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro  
35 40 45  
Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His  
50 55 60  
Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly  
65 70 75 80  
Phe Phe Ile Gln Asp Gln Ile Ala Leu Val Glu Arg Gly Gly Cys Ser  
85 90 95  
Phe Leu Ser Lys Thr Arg Val Val Gln Glu His Gly Gly Arg Ala Val  
100 105 110  
Ile Ile Ser Asp Asn Ala Leu Thr Met Thr Ala Ser Thr Trp Arg  
115 120 125

<210> 2098  
<211> 188  
<212> PRT  
<213> Homo sapiens

<400> 2098  
Met Val Pro Gly Ala Ala Gly Trp Cys Cys Leu Val Leu Trp Leu Pro  
1 5 10 15  
Ala Cys Val Ala Ala His Gly Phe Arg Ile His Asp Tyr Leu Tyr Phe  
20 25 30  
Gln Val Leu Ser Pro Gly Asp Ile Arg Tyr Ile Phe Thr Ala Thr Pro  
35 40 45  
Ala Lys Asp Phe Gly Gly Ile Phe His Thr Arg Tyr Glu Gln Ile His  
50 55 60  
Leu Val Pro Ala Glu Pro Pro Glu Ala Cys Gly Glu Leu Ser Asn Gly

65		70		75		80									
Phe	Phe	Ile	Gln	Asp	Gln	Ile	Ala	Leu	Val	Glu	Arg	Gly	Gly	Cys	Ser
				85					90					95	
Phe	Leu	Ser	Lys	Thr	Arg	Val	Val	Gln	Glu	His	Gly	Gly	Arg	Ala	Val
			100					105					110		
Ile	Ile	Ser	Asp	Asn	Ala	Val	Asp	Asn	Asp	Ser	Phe	Tyr	Val	Glu	Met
		115					120					125			
Ile	Gln	Asp	Ser	Thr	Gln	Arg	Thr	Ala	Asp	Ile	Pro	Ala	Leu	Phe	Leu
	130					135					140				
Leu	Gly	Arg	Asp	Gly	Tyr	Met	Ile	Arg	Arg	Ser	Leu	Glu	Gln	His	Gly
145					150					155					160
Leu	Pro	Trp	Ala	Ile	Ile	Ser	Ile	Pro	Val	Asn	Val	Thr	Ser	Ile	Pro
				165					170					175	
Thr	Phe	Glu	Leu	Leu	Gln	Pro	Pro	Trp	Thr	Phe	Trp				
			180					185							

<210> 2099  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 2099															
Met	Leu	Val	Leu	Phe	Lys	Phe	Leu	Pro	Leu	Thr	Ser	Ser	Gly	Arg	Phe
1				5					10					15	
Leu	Ser	Val	Thr	Leu	Tyr	His	Arg	Val	His	His	Gln	Thr	Phe	Phe	Ala
			20					25					30		
Gly	Ala	Lys	Ser	Phe	Ser	Pro	Ala	Ser	Thr	Leu	Asn	Leu	Tyr	Ile	Cys
		35					40					45			
Ser	Ser	Gln	Phe	Gln	Ser	Leu	Gln	Lys	Leu	Tyr	Cys	Gly	Val	Ile	Pro
	50					55					60				
Val	Leu	Arg	Tyr	Ala	Ser	Ile	Glu								
65					70										

<210> 2100  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<400> 2100															
Met	Ala	Tyr	Leu	Thr	Leu	Phe	Gln	Met	Gly	Ser	Trp	Met	Ser	Phe	Ser
1				5					10					15	

Leu Ser Leu Cys Ser Leu Leu Phe Ile Leu Thr Gly His Cys Leu Ser  
                   20                                  25                                  30  
 Glu Asn Phe Tyr Val Arg Gly Asp Gly Thr Arg Ala Tyr Phe Phe Thr  
                   35                                  40                                  45  
 Lys Gly Glu Val His Ser Met Phe Cys Lys Ala Ser Leu Asp Glu Lys  
                   50                                  55                                  60  
 Gln Asn Leu Val Asp Arg Arg Leu Gln Val Asn Arg Lys Lys Gln Val  
                   65                                  70                                  75                                  80  
 Lys Met His Arg Val Trp Ile Gln Gly Lys Phe Gln Lys Pro Leu His  
                                   85                                  90                                  95  
 Gln Thr Gln Asn Ser Ser Asn Met Val Ser Thr Leu Leu Ser Gln Asp  
                                   100                                  105                                  110

<210> 2101  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 2101  
 Met Gly Trp Ile Asp Leu Leu Leu Pro Glu Leu Gly Ala Leu Arg Val  
   1                                  5                                  10                                  15  
 Phe Leu His Leu Phe Leu Val Ala Leu Arg Thr Lys Arg Trp Ile Phe  
                                   20                                  25                                  30  
 Arg Thr Leu Gly Gln Leu Thr Cys Val Asn Ile Leu Gly Asp Ser Arg  
                   35                                  40                                  45  
 Lys Lys Arg Glu Cys Arg Leu Asn Lys Arg Gln Leu Gln Phe Gly Glu  
                   50                                  55                                  60  
 Lys Thr Leu Gln Val Pro Glu Arg Leu Val Val Arg His Ser Pro Phe  
                   65                                  70                                  75                                  80

<210> 2102  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 2102  
 Met Gln Val Ser Ser Trp Val Val Phe Gln Leu Val Trp Asn Ser Leu  
   1                                  5                                  10                                  15

Val Leu Thr Gln Thr Gly Ile Lys His Tyr Phe Arg Phe Ser Leu Cys  
20 25 30

Gln Phe Leu Ser Ser Tyr Asn His Val Asn Gln Asp Val Arg Thr Ser  
35 40 45

Ile

<210> 2103  
<211> 179  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (143)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2103  
Met Ala Gln Val Leu Ala Ser Glu Leu Ser Leu Val Ala Phe Ile Leu  
1 5 10 15

Leu Leu Val Met Ala Phe Ser Lys Lys Trp Leu Asp Leu Ser Arg Ser  
20 25 30

Leu Phe Tyr Gln Arg Trp Pro Val Asp Val Ser Asn Arg Ile His Thr  
35 40 45

Ser Ala His Val Met Ser Met Gly Leu Leu His Phe Cys Lys Ser Arg  
50 55 60

Ser Cys Ser Asp Leu Glu Asn Gly Lys Val Thr Phe Ile Phe Ser Thr  
65 70 75 80

Leu Met Leu Phe Pro Ile Asn Ile Trp Ile Phe Glu Leu Glu Arg Asn  
85 90 95

Val Ser Ile Pro Ile Gly Trp Ser Tyr Phe Ile Gly Trp Leu Val Leu  
100 105 110

Ile Leu Tyr Phe Thr Cys Ala Ile Leu Cys Tyr Phe Asn His Lys Ser  
115 120 125

Phe Trp Ser Leu Ile Leu Ser His Pro Ser Gly Ala Val Ser Xaa Ser  
130 135 140

Ser Ser Phe Gly Ser Val Glu Glu Ser Pro Arg Ala Gln Thr Ile Thr  
145 150 155 160

Asp Thr Pro Ile Thr Gln Glu Gly Val Leu Asp Pro Glu Gln Lys Asp  
165 170 175

Thr His Val

<210> 2104  
<211> 122  
<212> PRT  
<213> Homo sapiens

<400> 2104  
Met Pro Pro Leu Ala Pro Gln Leu Cys Arg Ala Val Phe Leu Val Pro  
1 5 10 15  
Ile Leu Leu Leu Leu Gln Val Lys Pro Leu Asn Gly Ser Pro Gly Pro  
20 25 30  
Lys Asp Gly Ser Gln Thr Glu Lys Thr Pro Ser Ala Asp Gln Asn Gln  
35 40 45  
Glu Gln Phe Glu Glu His Phe Val Ala Ser Ser Val Gly Glu Met Trp  
50 55 60  
Gln Val Val Asp Met Ala Gln Gln Glu Glu Asp Gln Ser Ser Lys Thr  
65 70 75 80  
Ala Ala Val His Lys His Ser Phe His Leu Ser Phe Cys Phe Ser Leu  
85 90 95  
Ala Ser Val Met Val Phe Ser Gly Gly Pro Leu Arg Arg Thr Phe Pro  
100 105 110  
Asn Ile Gln Leu Cys Phe Met Leu Thr His  
115 120

<210> 2105  
<211> 122  
<212> PRT  
<213> Homo sapiens

<400> 2105  
Met Pro Pro Leu Ala Pro Gln Leu Cys Arg Ala Val Phe Leu Val Pro  
1 5 10 15  
Ile Leu Leu Leu Leu Gln Val Lys Pro Leu Asn Gly Ser Pro Gly Pro  
20 25 30  
Lys Asp Gly Ser Gln Thr Glu Lys Thr Pro Ser Ala Asp Gln Asn Gln  
35 40 45  
Glu Gln Phe Glu Glu His Phe Val Ala Ser Ser Val Gly Glu Met Trp  
50 55 60  
Gln Val Val Asp Met Ala Gln Gln Glu Glu Asp Gln Ser Ser Lys Thr  
65 70 75 80

Ala Ala Val His Lys His Ser Phe His Leu Ser Phe Cys Phe Ser Leu  
85 90 95

Ala Ser Val Met Val Phe Ser Gly Gly Pro Leu Arg Arg Thr Phe Pro  
100 105 110

Asn Ile Gln Leu Cys Phe Met Leu Thr His  
115 120

<210> 2106  
<211> 459  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (321)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (345)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2106  
Met Gly Gly Pro Arg Ala Trp Ala Leu Leu Cys Leu Gly Leu Leu Leu  
1 5 10 15

Pro Gly Gly Gly Ala Ala Trp Ser Ile Gly Ala Ala Pro Phe Ser Gly  
20 25 30

Arg Arg Asn Trp Cys Ser Tyr Val Val Thr Arg Thr Ile Ser Cys His  
35 40 45

Val Gln Asn Gly Thr Tyr Leu Gln Arg Val Leu Gln Asn Cys Pro Trp  
50 55 60

Pro Met Ser Cys Pro Gly Ser Ser Tyr Arg Thr Val Val Arg Pro Thr  
65 70 75 80

Tyr Lys Val Met Tyr Lys Ile Val Thr Ala Arg Glu Trp Arg Cys Cys  
85 90 95

Pro Gly His Ser Gly Val Ser Cys Glu Glu Val Ala Ala Ser Ser Ala  
100 105 110

Ser Leu Glu Pro Met Trp Ser Gly Ser Thr Met Arg Arg Met Ala Leu  
115 120 125

Arg Pro Thr Ala Phe Ser Gly Cys Leu Asn Cys Ser Lys Val Ser Glu  
130 135 140

Leu Thr Glu Arg Leu Lys Val Leu Glu Ala Lys Met Thr Met Leu Thr  
145 150 155 160

Val	Ile	Glu	Gln	Pro	Val	Pro	Pro	Thr	Pro	Ala	Thr	Pro	Glu	Asp	Pro	165	170	175	
Ala	Pro	Leu	Trp	Gly	Pro	Pro	Pro	Ala	Gln	Gly	Ser	Pro	Gly	Asp	Gly	180	185	190	
Gly	Leu	Gln	Asp	Gln	Val	Gly	Ala	Trp	Gly	Leu	Pro	Gly	Pro	Thr	Gly	195	200	205	
Pro	Lys	Gly	Asp	Ala	Gly	Ser	Arg	Gly	Pro	Met	Gly	Met	Arg	Gly	Pro	210	215	220	
Pro	Gly	Pro	Gln	Gly	Pro	Pro	Gly	Ser	Pro	Gly	Arg	Ala	Gly	Ala	Val	225	230	235	240
Gly	Thr	Pro	Gly	Glu	Arg	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro	Pro	Gly	245	250	255	
Pro	Pro	Gly	Pro	Pro	Ala	Pro	Val	Gly	Pro	Pro	His	Ala	Arg	Ile	Ser	260	265	270	
Gln	His	Gly	Asp	Pro	Leu	Leu	Ser	Asn	Thr	Phe	Thr	Glu	Thr	Asn	Asn	275	280	285	
His	Trp	Pro	Gln	Gly	Pro	Thr	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro	Met	290	295	300	
Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro	Thr	Gly	Val	Pro	Gly	Ser	Pro	Gly	305	310	315	320
Xaa	Ile	Gly	Pro	Pro	Gly	Pro	Thr	Gly	Pro	Lys	Gly	Ile	Ser	Gly	His	325	330	335	
Pro	Gly	Glu	Lys	Gly	Glu	Lys	Lys	Xaa	Leu	Arg	Gly	Glu	Pro	Gly	Pro	340	345	350	
Gln	Gly	Ser	Ala	Gly	Gln	Arg	Gly	Glu	Pro	Gly	Pro	Lys	Gly	Asp	Pro	355	360	365	
Gly	Glu	Lys	Ser	His	Trp	Asn	Gln	Ser	Trp	Gly	Leu	Gly	Gly	Pro	Cys	370	375	380	
Arg	His	Arg	His	Pro	Gln	Pro	Pro	Ser	Gly	Gln	Glu	Gly	Gly	His	Ala	385	390	395	400
Thr	Asn	Tyr	Arg	Asp	Arg	Gly	Pro	Gln	Glu	Pro	Gly	Arg	Glu	Arg	Leu	405	410	415	
Arg	Val	Val	Ala	Ala	Pro	Glu	Ala	Asp	Gln	Ala	Arg	Leu	Pro	Leu	Leu	420	425	430	
Pro	Gly	Leu	Gly	Gln	Leu	Pro	Pro	Gly	Thr	Ala	Arg	Pro	Tyr	Leu	Leu	435	440	445	
Met	Ser	Ser	Gly	Ser	Leu	Leu	Pro	Ser	Arg	Pro						450	455		

<210> 2107  
<211> 615  
<212> PRT  
<213> Homo sapiens

<400> 2107

Met	Ile	Leu	Phe	Leu	Leu	Ala	Phe	Leu	Leu	Phe	Cys	Gly	Leu	Leu	Phe
1				5					10					15	
Tyr	Ile	Asn	Leu	Ala	Asp	His	Trp	Lys	Ala	Leu	Ala	Phe	Arg	Leu	Glu
			20					25					30		
Glu	Glu	Gln	Lys	Met	Arg	Pro	Glu	Ile	Ala	Gly	Leu	Lys	Pro	Ala	Asn
		35					40					45			
Pro	Pro	Val	Leu	Pro	Ala	Pro	Gln	Lys	Ala	Asp	Thr	Asp	Pro	Glu	Asn
		50				55					60				
Leu	Pro	Glu	Ile	Ser	Ser	Gln	Lys	Thr	Gln	Arg	His	Ile	Gln	Arg	Gly
65					70					75					80
Pro	Pro	His	Leu	Gln	Ile	Arg	Pro	Pro	Ser	Gln	Asp	Leu	Lys	Asp	Gly
				85					90					95	
Thr	Gln	Glu	Glu	Ala	Thr	Lys	Arg	Gln	Glu	Ala	Pro	Val	Asp	Pro	Arg
			100					105					110		
Pro	Glu	Gly	Asp	Pro	Gln	Arg	Thr	Val	Ile	Ser	Trp	Arg	Gly	Ala	Val
		115					120					125			
Ile	Glu	Pro	Glu	Gln	Gly	Thr	Glu	Leu	Pro	Ser	Arg	Arg	Ala	Glu	Val
	130					135					140				
Pro	Thr	Lys	Pro	Pro	Leu	Pro	Pro	Ala	Arg	Thr	Gln	Gly	Thr	Pro	Val
145					150				155						160
His	Leu	Asn	Tyr	Arg	Gln	Lys	Gly	Val	Ile	Asp	Val	Phe	Leu	His	Ala
				165					170					175	
Trp	Lys	Gly	Tyr	Arg	Lys	Phe	Ala	Trp	Gly	His	Asp	Glu	Leu	Lys	Pro
			180					185					190		
Val	Ser	Arg	Ser	Phe	Ser	Glu	Trp	Phe	Gly	Leu	Gly	Leu	Thr	Leu	Ile
		195					200					205			
Asp	Ala	Leu	Asp	Thr	Met	Trp	Ile	Leu	Gly	Leu	Arg	Lys	Glu	Phe	Glu
	210					215					220				
Glu	Ala	Arg	Lys	Trp	Val	Ser	Lys	Lys	Leu	His	Phe	Glu	Lys	Asp	Val
225					230					235					240
Asp	Val	Asn	Leu	Phe	Glu	Ser	Thr	Ile	Arg	Ile	Leu	Gly	Gly	Leu	Leu
			245						250					255	
Ser	Ala	Tyr	His	Leu	Ser	Gly	Asp	Ser	Leu	Phe	Leu	Arg	Lys	Ala	Glu



260							265					270				
Asp	Phe	Gly	Asn	Arg	Leu	Met	Pro	Ala	Phe	Arg	Thr	Pro	Ser	Lys	Ile	
		275					280				285					
Pro	Tyr	Ser	Asp	Val	Asn	Ile	Gly	Thr	Gly	Val	Ala	His	Pro	Pro	Arg	
	290				295					300						
Trp	Thr	Ser	Asp	Ser	Thr	Val	Ala	Glu	Val	Thr	Ser	Ile	Gln	Leu	Glu	
305					310					315				320		
Phe	Arg	Glu	Leu	Ser	Arg	Leu	Thr	Gly	Asp	Lys	Lys	Phe	Gln	Glu	Ala	
				325					330					335		
Val	Glu	Lys	Val	Thr	Gln	His	Ile	His	Gly	Leu	Ser	Gly	Lys	Lys	Asp	
			340					345					350			
Gly	Leu	Val	Pro	Met	Phe	Ile	Asn	Thr	His	Ser	Gly	Leu	Phe	Thr	His	
		355					360					365				
Leu	Gly	Val	Phe	Thr	Leu	Gly	Ala	Arg	Ala	Asp	Ser	Tyr	Tyr	Glu	Tyr	
	370					375				380						
Leu	Leu	Lys	Gln	Trp	Ile	Gln	Gly	Gly	Lys	Gln	Glu	Thr	Gln	Leu	Leu	
385					390					395				400		
Glu	Asp	Tyr	Val	Glu	Ala	Ile	Glu	Gly	Val	Arg	Thr	His	Leu	Leu	Arg	
				405					410					415		
His	Ser	Glu	Pro	Ser	Lys	Leu	Thr	Phe	Val	Gly	Glu	Leu	Ala	His	Gly	
			420					425					430			
Arg	Phe	Ser	Ala	Lys	Met	Asp	His	Leu	Val	Cys	Phe	Leu	Pro	Gly	Thr	
		435				440						445				
Leu	Ala	Leu	Gly	Val	Tyr	His	Gly	Leu	Pro	Ala	Ser	His	Met	Glu	Leu	
	450					455					460					
Ala	Gln	Glu	Leu	Met	Glu	Thr	Cys	Tyr	Gln	Met	Asn	Arg	Gln	Met	Glu	
465					470					475				480		
Thr	Gly	Leu	Ser	Pro	Glu	Ile	Val	His	Phe	Asn	Leu	Tyr	Pro	Gln	Pro	
				485					490					495		
Gly	Arg	Arg	Asp	Val	Glu	Val	Lys	Pro	Ala	Asp	Arg	His	Asn	Leu	Leu	
			500					505					510			
Arg	Pro	Glu	Thr	Val	Glu	Ser	Leu	Phe	Tyr	Leu	Tyr	Arg	Val	Thr	Gly	
		515				520						525				
Asp	Arg	Lys	Tyr	Gln	Asp	Trp	Gly	Trp	Glu	Ile	Leu	Gln	Ser	Phe	Ser	
		530				535					540					
Arg	Phe	Thr	Arg	Val	Pro	Ser	Gly	Gly	Tyr	Ser	Ser	Ile	Asn	Asn	Val	
545					550					555				560		
Gln	Asp	Pro	Gln	Lys	Pro	Glu	Pro	Arg	Asp	Lys	Met	Glu	Ser	Phe	Phe	

	565		570		575
Leu Gly Glu Thr Leu Lys Tyr Leu Phe Leu Leu Phe Ser Asp Asp Pro					
	580		585		590
Asn Leu Leu Ser Leu Asp Ala Tyr Val Phe Asn Thr Glu Ala His Pro					
	595		600		605
Leu Pro Ile Trp Thr Pro Ala					
	610		615		

<210> 2108  
 <211> 404  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (77)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (96)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (98)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (108)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (122)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (124)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (126)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (175)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (192)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (210)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (236)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (239)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (309)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (335)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (389)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2108  
 Met His Pro Ile Pro Ser Ser Phe Met Ile Lys Ala Val Ser Ser Phe  
     1                    5                    10                    15  
 Leu Thr Ala Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe Met  
           20                    25                    30  
 Lys Val Leu Gln Ala Arg Lys Asn Xaa Thr Ser Thr Glu Leu Ile Val  
       35                    40                    45  
 Glu Pro Glu Glu Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly Phe  
       50                    55                    60  
 Gly Ser Glu Gln Leu Asp Thr Asn Asp Glu Ser Asp Xaa Ile Ser Thr  
       65                    70                    75                    80

Leu	Ser	Tyr	Ile	Leu	Pro	Tyr	Phe	Ser	Ala	Val	Asn	Leu	Asp	Val	Xaa	85	90	95	
Ser	Xaa	Leu	Leu	Pro	Phe	Ile	Lys	Leu	Pro	Thr	Xaa	Gly	Asn	Ser	Leu	100	105	110	
Ala	Lys	Ile	Gln	Thr	Val	Gly	Gln	Asn	Xaa	Gln	Xaa	Val	Xaa	Arg	Val	115	120	125	
Leu	Met	Gly	Pro	Arg	Ser	Ile	Gln	Lys	Arg	His	Phe	Lys	Glu	Val	Gly	130	135	140	
Arg	Gln	Ser	Ile	Arg	Arg	Glu	Gln	Gly	Ala	Gln	Ala	Ser	Val	Glu	Asn	145	150	155	160
Ala	Ala	Glu	Glu	Lys	Arg	Leu	Gly	Ser	Pro	Ala	Pro	Arg	Glu	Xaa	Glu	165	170	175	
Gln	Pro	His	Thr	Gln	Gln	Gly	Pro	Glu	Lys	Leu	Ala	Gly	Asn	Ala	Xaa	180	185	190	
Tyr	Thr	Lys	Pro	Ser	Phe	Thr	Gln	Glu	His	Lys	Ala	Ala	Val	Ser	Val	195	200	205	
Leu	Xaa	Pro	Phe	Ser	Lys	Gly	Ala	Pro	Ser	Thr	Ser	Ser	Pro	Ala	Lys	210	215	220	
Ala	Leu	Pro	Gln	Val	Arg	Asp	Arg	Trp	Lys	Asp	Xaa	Thr	His	Xaa	Ile	225	230	235	240
Ser	Ile	Leu	Glu	Ser	Ala	Lys	Ala	Arg	Val	Thr	Asn	Met	Lys	Ala	Ser	245	250	255	
Lys	Pro	Ile	Ser	His	Ser	Arg	Lys	Lys	Tyr	Arg	Phe	His	Lys	Thr	Arg	260	265	270	
Ser	Arg	Met	Thr	His	Arg	Thr	Pro	Lys	Val	Lys	Lys	Ser	Pro	Lys	Phe	275	280	285	
Arg	Lys	Lys	Ser	Tyr	Leu	Ser	Arg	Leu	Met	Leu	Ala	Asn	Arg	Pro	Pro	290	295	300	
Phe	Ser	Ala	Ala	Xaa	Ser	Leu	Ile	Asn	Ser	Pro	Ser	Gln	Gly	Ala	Phe	305	310	315	320
Ser	Ser	Leu	Gly	Asp	Leu	Ser	Pro	Gln	Glu	Asn	Pro	Phe	Leu	Xaa	Val	325	330	335	
Ser	Ala	Pro	Ser	Glu	His	Phe	Ile	Glu	Thr	Thr	Asn	Ile	Lys	Asp	Thr	340	345	350	
Thr	Ala	Arg	Asn	Ala	Leu	Glu	Glu	Asn	Val	Phe	Met	Glu	Asn	Thr	Asn	355	360	365	
Met	Pro	Glu	Val	Thr	Ile	Ser	Glu	Asn	Thr	Asn	Tyr	Asn	His	Pro	Pro	370	375	380	

Glu Ala Asp Ser Xaa Gly Thr Ala Phe Asn Leu Gly Pro Thr Val Lys  
385 390 395 400

Gln Thr Glu Thr

<210> 2109  
<211> 45  
<212> PRT  
<213> Homo sapiens

<400> 2109  
Met Val Thr Ser Gly Met Leu Val Phe Ser Ile Lys Thr Phe Ser Ser  
1 5 10 15

Lys Ala Phe Leu Ala Val Val Ser Phe Ile Leu Val Val Ser Ile Lys  
20 25 30

Cys Ser Glu Gly Ala Asp Thr Ser Arg Lys Gly Phe Ser  
35 40 45

<210> 2110  
<211> 45  
<212> PRT  
<213> Homo sapiens

<400> 2110  
Met Val Thr Ser Gly Met Leu Val Phe Ser Ile Lys Thr Phe Ser Ser  
1 5 10 15

Lys Ala Phe Leu Ala Val Val Ser Phe Ile Leu Val Val Ser Ile Lys  
20 25 30

Cys Ser Glu Gly Ala Asp Thr Ser Arg Lys Gly Phe Ser  
35 40 45

<210> 2111  
<211> 257  
<212> PRT  
<213> Homo sapiens

<400> 2111  
Met Glu Met Ile Ile Gln Phe Gly Phe Val Thr Leu Phe Val Ala Ser  
1 5 10 15

Phe Pro Leu Ala Pro Leu Phe Ala Leu Leu Asn Asn Ile Ile Glu Ile  
20 25 30

Arg Leu Asp Ala Lys Lys Phe Val Thr Glu Leu Arg Arg Pro Val Ala  
35 40 45

Val	Arg	Ala	Lys	Asp	Ile	Gly	Ile	Trp	Tyr	Asn	Ile	Leu	Arg	Gly	Ile
50						55					60				
Gly	Lys	Leu	Ala	Val	Ile	Ile	Asn	Ala	Phe	Val	Ile	Ser	Phe	Thr	Ser
65					70					75					80
Asp	Phe	Ile	Pro	Arg	Leu	Val	Tyr	Leu	Tyr	Met	Tyr	Ser	Lys	Asn	Gly
				85					90					95	
Thr	Met	His	Gly	Phe	Val	Asn	His	Thr	Leu	Ser	Ser	Phe	Asn	Val	Ser
			100					105					110		
Asp	Phe	Gln	Asn	Gly	Thr	Ala	Pro	Asn	Asp	Pro	Leu	Asp	Leu	Gly	Tyr
		115					120					125			
Glu	Val	Gln	Ile	Cys	Arg	Tyr	Lys	Asp	Tyr	Arg	Glu	Pro	Pro	Trp	Ser
	130					135					140				
Glu	Asn	Lys	Tyr	Asp	Ile	Ser	Lys	Asp	Phe	Trp	Ala	Val	Leu	Ala	Ala
145					150					155					160
Arg	Leu	Ala	Phe	Val	Ile	Val	Phe	Gln	Asn	Leu	Val	Met	Phe	Met	Ser
				165					170					175	
Asp	Phe	Val	Asp	Trp	Val	Ile	Pro	Asp	Ile	Pro	Lys	Asp	Ile	Ser	Gln
			180					185					190		
Gln	Ile	His	Lys	Glu	Lys	Val	Leu	Met	Val	Glu	Leu	Phe	Met	Arg	Glu
		195					200					205			
Glu	Gln	Asp	Lys	Gln	Gln	Leu	Leu	Glu	Thr	Trp	Met	Glu	Lys	Glu	Arg
	210					215					220				
Gln	Lys	Asp	Glu	Pro	Pro	Cys	Asn	His	His	Asn	Thr	Lys	Ala	Cys	Pro
225					230					235					240
Asp	Ser	Leu	Gly	Ser	Pro	Ala	Pro	Ser	His	Ala	Tyr	His	Gly	Gly	Val
				245					250					255	

Leu

<210> 2112  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 2112  
 Met Thr His Gly Cys Leu Ser Leu Ala Ser Met Ala Ala Gly Leu Gly  
 1 5 10 15  
 Ser Val Ser Leu Phe Leu Phe Val Gln Gln Trp Thr Pro Thr Thr Ala  
 20 25 30  
 Ser Thr Gly Glu Thr Pro Ser Ser Trp Gln Lys Thr Thr Ser Cys Val

35

40

45

Arg Arg  
50

<210> 2113  
<211> 50  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 2113

Met Thr His Gly Cys Leu Ser Leu Ala Ser Met Ala Ala Gly Leu Gly  
1 5 10 15  
Ser Val Ser Leu Phe Leu Phe Val Gln Gln Trp Thr Pro Thr Thr Ala  
20 25 30  
Ser Thr Gly Glu Thr Pro Ser Ser Trp Gln Lys Thr Thr Ser Cys Val  
35 40 45

Arg Arg  
50

<210> 2114  
<211> 74  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 2114

Met Val Leu Leu Leu Leu Leu Leu Leu Gln Lys Ile Pro Gly Thr Pro  
1 5 10 15  
Leu Phe Gln Pro Gly Phe Leu Gly Trp Ala Gln Glu Ser Cys Gln Ile  
20 25 30  
Gln Ser Tyr Val Gly Ser Lys Leu Pro Leu Cys Cys Phe Cys Gln Ala  
35 40 45  
Arg Cys Gly His Ser Lys Phe Ile Cys Val Asn Lys Arg Lys Glu Glu  
50 55 60  
Pro Ser Gly Cys Asn Arg Thr Asp Ser Ser  
65 70

<210> 2115  
<211> 94  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 2115

Met Trp Pro Trp Trp Leu Met Val Glu Arg Thr Val Val Leu Leu Leu

1	5	10	15
Ile Thr Tyr Leu Val Pro Val Gly Gly Ser Ala Val Gly Pro Pro Gly	20	25	30
Pro Gly Cys Asn Val Ser Thr Ser Pro Pro Pro Pro Ala Thr Arg Cys	35	40	45
Pro Asp Glu Ser Glu Leu Tyr Arg Asp Pro Gly Glu Ala Pro Leu Glu	50	55	60
Ala Asp Gln Ala Glu Arg Gly Ala Ala His Glu Gly Gly His Pro Gly	65	70	75
Arg Asp Pro Trp Gly Ala Arg Arg Gly Pro Pro Arg Cys Gly	85	90	

<210> 2116  
 <211> 180  
 <212> PRT  
 <213> Homo sapiens

<400> 2116
Met Ala Ile Cys Ser Cys Gln Cys Pro Ala Ala Met Ala Phe Cys Phe
1 5 10 15
Leu Glu Thr Leu Trp Trp Glu Phe Thr Ala Ser Tyr Asp Thr Thr Cys
20 25 30
Ile Gly Leu Ala Ser Arg Pro Tyr Ala Phe Leu Glu Phe Asp Ser Ile
35 40 45
Ile Gln Lys Val Lys Trp His Phe Asn Tyr Val Ser Ser Ser Gln Met
50 55 60
Glu Cys Ser Leu Glu Lys Ile Gln Glu Glu Leu Lys Leu Gln Pro Pro
65 70 75 80
Ala Val Leu Thr Leu Glu Asp Thr Asp Val Ala Asn Gly Val Met Asn
85 90 95
Gly His Thr Pro Met His Leu Glu Pro Ala Pro Asn Phe Arg Met Glu
100 105 110
Pro Val Thr Ala Leu Gly Ile Leu Ser Leu Ile Leu Asn Ile Met Cys
115 120 125
Ala Ala Leu Asn Leu Ile Arg Gly Val His Leu Ala Glu His Ser Leu
130 135 140
Gln Val Ala His Glu Glu Ile Gly Asn Ile Leu Ala Phe Leu Val Pro
145 150 155 160
Phe Val Ala Cys Ile Phe Gln Asp Pro Arg Ser Trp Phe Cys Trp Leu
165 170 175



Asp Gln Thr Ser  
180

<210> 2117  
<211> 80  
<212> PRT  
<213> Homo sapiens

<400> 2117  
Met Trp Pro Arg Met Leu Ala Phe Ser Thr Trp Leu Glu Trp Leu Leu  
1 5 10 15  
Phe Ser Pro Leu Pro Gln Ser Val Gly Cys Pro Gly Pro Leu Glu Phe  
20 25 30  
Tyr Cys Val Gln Asp Arg Arg Pro Pro Ser Leu Pro Asp Gly Ala Asp  
35 40 45  
His Phe Ser Ser Pro Thr Arg Ile Thr Ser Ser Ser Ile Ser Pro Ala  
50 55 60  
Leu Ser Leu Gln Ala Pro Glu Ala Gly Gly Phe Leu Ser Ile Pro Gly  
65 70 75 80

<210> 2118  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 2118  
Met His Asp Val Leu Phe Phe Leu Ser Phe Ser Leu Val Ala Cys Val  
1 5 10 15  
Lys Ala Gly Met Leu  
20

<210> 2119  
<211> 291  
<212> PRT  
<213> Homo sapiens

<400> 2119  
Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile  
1 5 10 15  
Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile  
20 25 30

Ile	Ala	Ala	Ala	Ala	Ser	Trp	Ile	Ile	Thr	Cys	Val	Leu	Leu	Cys	Cys				
		35					40					45							
Ser	Lys	His	Ala	Arg	Cys	Phe	Ile	Leu	Leu	Val	Phe	Leu	Ser	Cys	Gly				
	50					55					60								
Leu	Arg	Glu	Gly	Arg	Asn	Ala	Leu	Ile	Ala	Ala	Gly	Thr	Gly	Ile	Val				
65					70				75						80				
Ile	Leu	Gly	His	Val	Glu	Asn	Ile	Phe	His	Asn	Phe	Lys	Gly	Leu	Leu				
				85				90						95					
Asp	Gly	Met	Thr	Cys	Asn	Leu	Arg	Ala	Lys	Ser	Phe	Ser	Ile	His	Phe				
			100					105					110						
Pro	Leu	Leu	Lys	Lys	Tyr	Ile	Glu	Ala	Ile	Gln	Trp	Ile	Tyr	Gly	Leu				
	115						120					125							
Ala	Thr	Pro	Leu	Ser	Val	Phe	Asp	Asp	Leu	Val	Ser	Trp	Asn	Gln	Thr				
	130					135					140								
Leu	Ala	Val	Ser	Leu	Phe	Ser	Pro	Ser	His	Val	Leu	Glu	Ala	Gln	Leu				
145					150					155					160				
Asn	Asp	Ser	Lys	Gly	Glu	Val	Leu	Ser	Val	Leu	Tyr	Gln	Met	Ala	Thr				
			165					170					175						
Thr	Thr	Glu	Val	Leu	Ser	Ser	Leu	Gly	Gln	Lys	Leu	Leu	Ala	Phe	Ala				
			180					185					190						
Gly	Leu	Ser	Leu	Val	Leu	Leu	Gly	Thr	Gly	Leu	Phe	Met	Lys	Arg	Phe				
	195						200					205							
Leu	Gly	Pro	Cys	Gly	Trp	Lys	Tyr	Glu	Asn	Ile	Tyr	Ile	Thr	Arg	Gln				
	210					215					220								
Phe	Val	Gln	Phe	Asp	Glu	Arg	Glu	Arg	His	Gln	Gln	Arg	Pro	Cys	Met				
225					230					235					240				
Leu	Pro	Leu	Asn	Lys	Glu	Glu	Arg	Arg	Lys	Asn	Lys	Glu	Leu	Lys	Ile				
				245					250					255					
Leu	Ser	Met	Ile	Leu	Pro	Leu	Ile	Tyr	Leu	Cys	Leu	Asn	Pro	Thr	Val				
			260					265					270						
Ser	Gln	Asn	Gln	Asn	Ser	Phe	Tyr	Leu	Arg	Pro	Gly	Phe	Leu	Ser	Val				
		275					280					285							
Leu	Phe	Phe																	
	290																		

<210> 2120

<211> 257

<212> PRT

<213> Homo sapiens

<400> 2120

Met	Asp	Phe	Ile	Gln	His	Leu	Gly	Val	Cys	Cys	Leu	Val	Ala	Leu	Ile	
1				5					10					15		
Ser	Val	Gly	Leu	Leu	Ser	Val	Ala	Ala	Cys	Trp	Phe	Leu	Pro	Ser	Ile	
			20					25					30			
Ile	Ala	Ala	Ala	Ala	Ser	Trp	Ile	Ile	Thr	Cys	Val	Leu	Leu	Cys	Cys	
		35					40					45				
Ser	Lys	His	Ala	Arg	Cys	Phe	Ile	Leu	Leu	Val	Phe	Leu	Ser	Cys	Gly	
	50					55					60					
Leu	Arg	Glu	Gly	Arg	Asn	Ala	Leu	Ile	Ala	Ala	Gly	Thr	Gly	Ile	Val	
65					70					75					80	
Ile	Leu	Gly	His	Val	Glu	Asn	Ile	Phe	His	Asn	Phe	Lys	Gly	Leu	Leu	
				85					90					95		
Asp	Gly	Met	Thr	Cys	Asn	Leu	Arg	Ala	Lys	Ser	Phe	Ser	Ile	His	Phe	
			100					105					110			
Pro	Leu	Leu	Lys	Lys	Tyr	Ile	Glu	Ala	Ile	Gln	Trp	Ile	Tyr	Gly	Leu	
	115						120					125				
Ala	Thr	Pro	Leu	Ser	Val	Phe	Asp	Asp	Leu	Val	Ser	Trp	Asn	Gln	Thr	
	130					135					140					
Leu	Ala	Val	Ser	Leu	Phe	Ser	Pro	Ser	His	Val	Leu	Glu	Ala	Gln	Leu	
145					150					155					160	
Asn	Asp	Ser	Lys	Gly	Glu	Val	Leu	Ser	Val	Leu	Tyr	Gln	Met	Ala	Thr	
			165						170					175		
Thr	Thr	Glu	Val	Leu	Ser	Ser	Leu	Gly	Gln	Lys	Leu	Leu	Ala	Phe	Ala	
			180					185					190			
Gly	Leu	Ser	Leu	Val	Leu	Leu	Gly	Thr	Gly	Leu	Phe	Met	Lys	Arg	Phe	
	195						200					205				
Leu	Gly	Pro	Cys	Gly	Trp	Lys	Tyr	Glu	Asn	Ile	Tyr	Ile	Thr	Arg	Gln	
	210					215					220					
Phe	Val	Gln	Phe	Asp	Glu	Arg	Glu	Arg	His	Gln	Gln	Arg	Pro	Cys	Val	
225					230					235					240	
Leu	Pro	Leu	Asn	Lys	Glu	Glu	Arg	Arg	Lys	Phe	Ile	Ser	Gly	Phe	Gln	
			245						250					255		
Ser																

<210> 2121



<210> 2122  
<211> 352  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (284)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2122  
Met Asp Phe Ile Gln His Leu Gly Val Cys Cys Leu Val Ala Leu Ile  
1 5 10 15  
Ser Val Gly Leu Leu Ser Val Ala Ala Cys Trp Phe Leu Pro Ser Ile  
20 25 30  
Ile Ala Ala Ala Ala Ser Trp Ile Ile Thr Cys Val Leu Leu Cys Cys  
35 40 45  
Ser Lys His Ala Arg Cys Phe Ile Leu Leu Val Phe Leu Ser Cys Gly  
50 55 60  
Leu Arg Glu Gly Arg Asn Ala Leu Ile Ala Ala Gly Thr Gly Ile Val  
65 70 75 80  
Ile Leu Gly His Val Glu Asn Ile Phe His Asn Phe Lys Gly Leu Leu  
85 90 95  
Asp Gly Met Thr Cys Asn Leu Arg Ala Lys Ser Phe Ser Ile His Phe  
100 105 110  
Pro Leu Leu Lys Lys Tyr Ile Glu Ala Ile Gln Trp Ile Tyr Gly Leu  
115 120 125  
Ala Thr Pro Leu Ser Val Phe Asp Asp Leu Val Ser Trp Asn Gln Thr  
130 135 140  
Leu Ala Val Ser Leu Phe Ser Pro Ser His Val Leu Glu Ala Gln Leu  
145 150 155 160  
Asn Asp Ser Lys Gly Glu Val Leu Ser Val Leu Tyr Gln Met Ala Thr  
165 170 175  
Thr Thr Glu Val Leu Ser Ser Leu Gly Gln Lys Leu Leu Ala Phe Ala  
180 185 190  
Gly Leu Ser Leu Val Leu Leu Gly Thr Gly Leu Phe Met Lys Arg Phe  
195 200 205  
Leu Gly Pro Cys Gly Trp Lys Tyr Glu Asn Ile Tyr Ile Thr Arg Gln  
210 215 220  
Phe Val Gln Phe Asp Glu Arg Glu Arg His Gln Gln Arg Pro Cys Val  
225 230 235 240

Leu	Pro	Leu	Asn	Lys	Glu	Glu	Arg	Arg	Lys	Tyr	Val	Ile	Ile	Pro	Thr
				245					250					255	
Phe	Trp	Pro	Thr	Pro	Lys	Glu	Arg	Lys	Asn	Leu	Gly	Leu	Phe	Phe	Leu
			260					265					270		
Pro	Ile	Leu	Ile	His	Leu	Cys	Ile	Trp	Val	Leu	Xaa	Ala	Ala	Val	Asp
		275					280					285			
Tyr	Leu	Leu	Tyr	Arg	Leu	Ile	Phe	Ser	Val	Ser	Lys	Gln	Phe	Gln	Ser
	290					295					300				
Leu	Pro	Gly	Phe	Glu	Val	His	Leu	Lys	Leu	His	Gly	Glu	Lys	Gln	Gly
305					310					315					320
Thr	Gln	Asp	Ile	Ile	His	Asp	Ser	Ser	Phe	Asn	Ile	Ser	Val	Phe	Glu
				325					330					335	
Pro	Asn	Cys	Ile	Pro	Lys	Pro	Trp	Gln	Ala	Leu	Lys	Leu	Leu	Ala	His
			340					345					350		

<210> 2123  
 <211> 259  
 <212> PRT  
 <213> Homo sapiens

<400> 2123

Met	Val	Ser	Cys	Ser	Ile	Leu	Ala	Leu	Thr	His	Leu	Leu	Phe	Glu	Phe
1				5					10					15	
Lys	Gly	Leu	Met	Gly	Thr	Ser	Thr	Val	Glu	Gln	Leu	Leu	Glu	Asn	Val
			20					25					30		
Cys	Leu	Leu	Leu	Ala	Ser	Arg	Thr	Arg	Asp	Val	Val	Lys	Ser	Ala	Leu
		35					40					45			
Gly	Phe	Ile	Lys	Val	Ala	Val	Thr	Val	Met	Asp	Val	Ala	His	Leu	Ala
	50					55					60				
Lys	His	Val	Gln	Leu	Val	Met	Glu	Ala	Ile	Gly	Lys	Leu	Ser	Asp	Asp
65					70					75				80	
Met	Arg	Arg	His	Phe	Arg	Met	Lys	Leu	Arg	Asn	Leu	Phe	Thr	Lys	Phe
				85					90					95	
Ile	Arg	Lys	Phe	Gly	Phe	Glu	Leu	Val	Lys	Arg	Leu	Leu	Pro	Glu	Glu
			100					105					110		
Tyr	His	Arg	Val	Leu	Val	Asn	Ile	Arg	Lys	Ala	Glu	Ala	Arg	Ala	Lys
		115					120					125			
Arg	His	Arg	Ala	Leu	Ser	Gln	Ala	Ala	Val	Glu	Glu	Glu	Glu	Glu	Glu

130		135		140
Glu Glu Glu Glu Glu	Pro Ala Gln Gly Lys	Gly Asp Ser Ile Glu Glu		
145	150	155		160
Ile Leu Ala Asp Ser	Glu Asp Glu Glu Asp	Asn Glu Glu Glu Glu	Arg	
	165	170	175	
Ser Arg Gly Lys Glu	Gln Arg Lys Leu Ala	Arg Gln Arg Ser Arg	Ala	
	180	185	190	
Trp Leu Lys Glu Gly	Gly Gly Asp Glu Pro	Leu Asn Phe Leu Asp	Pro	
	195	200	205	
Lys Val Ala Gln Arg	Val Leu Ala Thr Gln	Pro Gly Pro Ala Gly	Gln	
	210	215	220	
Glu Glu Gly Pro Gln	Leu Gln Gly Glu Arg	Arg Trp Pro Ala Asp	His	
225	230	235	240	
Lys Gly Gly Gly Arg	Arg Gln Gln Asp Gly	Gly Arg Gly Arg Cys	Gln	
	245	250	255	
Arg Arg Arg				

<210> 2124  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 2124
Met Leu Trp Leu Gly Thr Ser Leu Ile Phe Ser Ser Phe Ser Ala Ser
1 5 10 15
Phe Asp Gly Val Pro Phe Leu Ser Ser Trp Leu Phe Trp Ser Ser Gly
20 25 30
Ser Ser Pro Asn Ser Leu Ile Pro Pro Phe
35 40

<210> 2125  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 2125
Met Tyr Pro Pro Val Ala Pro Ser Phe Trp Gly Cys Val Cys Phe Phe
1 5 10 15
Trp Ala Val Pro Leu Val Cys Cys Arg Asp Ser Trp Lys Gly Leu Ser
20 25 30

Leu Phe Val Gly Ser Gly Gly Leu Gly Leu Val Glu His  
35 40 45

<210> 2126  
<211> 54  
<212> PRT  
<213> Homo sapiens

<400> 2126  
Met Trp Pro Phe Leu His Leu Leu Asn Met Pro Phe Thr Leu Thr Gln  
1 5 10 15  
Val Val Ala Ser Pro Ser Ser Cys Ser Asn Trp Lys Pro Gln His Pro  
20 25 30  
Glu Met Pro Pro Pro Gln Ile His Cys Thr His Val Cys Leu Cys Met  
35 40 45  
Arg Val Cys Ala Arg Val  
50

<210> 2127  
<211> 136  
<212> PRT  
<213> Homo sapiens

<400> 2127  
Met Leu Met Leu Leu Thr Leu Leu Val Leu Gly Met Val Trp Val Ala  
1 5 10 15  
Ser Ala Ile Val Asp Lys Asn Lys Ala Asn Arg Glu Ser Leu Tyr Asp  
20 25 30  
Phe Trp Glu Tyr Tyr Leu Pro Tyr Leu Tyr Ser Cys Ile Ser Phe Leu  
35 40 45  
Gly Val Leu Leu Leu Leu Gly Glu Cys Thr Gly Ser Gly Arg Glu Trp  
50 55 60  
Ala Gly Ser Leu Asp Gln Ser Asn Gln Ala Arg Arg Lys Gly Asn Gly  
65 70 75 80  
Gly His Val Arg Glu Gly Val Glu Ser Arg Val Trp Gln Val Thr Gly  
85 90 95  
Ser Cys Pro Tyr Ser Val Tyr Ser Thr Gly Ser Arg Pro His Val Leu  
100 105 110  
Arg His Trp Glu Ala Ala Ser Gln Ala Pro Ala Ala Gly Arg Pro Gly  
115 120 125  
Gly Ala Ala Val Leu Leu Ser Leu  
130 135



<210> 2128  
<211> 74  
<212> PRT  
<213> Homo sapiens

<400> 2128

Met	His	Trp	Thr	Phe	Ser	Ser	Ser	Leu	Gly	Cys	Leu	Tyr	His	Phe	Ser
1				5					10					15	
Leu	Ser	Phe	Ser	Gly	Leu	His	Thr	Val	Leu	Lys	Ser	Ser	Pro	Ser	Ser
			20					25					30		
Arg	Phe	Leu	Leu	Pro	Cys	Ser	Ser	Gln	Val	Thr	Gln	Pro	Ser	Pro	Val
		35					40					45			
Gly	Gln	Pro	Arg	Leu	Val	Val	Gln	Leu	Pro	Pro	Val	Lys	Val	Ile	Gly
	50					55					60				
His	Arg	Thr	Gly	Gln	Cys	Arg	Gly	Pro	Gly						
65					70										

<210> 2129  
<211> 253  
<212> PRT  
<213> Homo sapiens

<400> 2129

Met	Asp	Asn	Arg	Phe	Ala	Thr	Ala	Phe	Val	Ile	Ala	Cys	Val	Leu	Ser
1				5					10					15	
Leu	Ile	Ser	Thr	Ile	Tyr	Met	Ala	Ala	Ser	Ile	Gly	Thr	Asp	Phe	Trp
			20					25					30		
Tyr	Glu	Tyr	Arg	Ser	Pro	Val	Gln	Glu	Asn	Ser	Ser	Asp	Leu	Asn	Lys
		35					40					45			
Ser	Ile	Trp	Asp	Glu	Phe	Ile	Ser	Asp	Glu	Ala	Asp	Glu	Lys	Thr	Tyr
	50					55					60				
Asn	Asp	Ala	Leu	Phe	Arg	Tyr	Asn	Gly	Thr	Val	Gly	Leu	Trp	Arg	Arg
65					70					75				80	
Cys	Ile	Thr	Ile	Pro	Lys	Asn	Met	His	Trp	Tyr	Ser	Pro	Pro	Glu	Arg
				85					90					95	
Thr	Glu	Ser	Phe	Asp	Val	Val	Thr	Lys	Cys	Val	Ser	Phe	Thr	Leu	Thr
			100					105					110		
Glu	Gln	Phe	Met	Glu	Lys	Phe	Val	Asp	Pro	Gly	Asn	His	Asn	Ser	Gly
	115						120					125			
Ile	Asp	Leu	Leu	Arg	Thr	Tyr	Leu	Trp	Arg	Cys	Gln	Phe	Leu	Leu	Pro

130		135		140
Phe Val Ser Leu Gly Leu Met Cys Phe Gly Ala Leu Ile Gly Leu Cys				
145		150	155	160
Ala Cys Ile Cys Arg Ser Leu Tyr Pro Thr Ile Ala Thr Gly Ile Leu				
	165		170	175
His Leu Leu Ala Gly Leu Cys Thr Leu Gly Ser Val Ser Cys Tyr Val				
	180		185	190
Ala Gly Ile Glu Leu Leu His Gln Lys Leu Glu Leu Pro Asp Asn Val				
	195	200	205	
Ser Gly Glu Phe Gly Trp Ser Phe Cys Leu Ala Cys Val Ser Ala Pro				
	210	215	220	
Leu Gln Phe Met Ala Ser Ala Leu Phe Ile Trp Ala Ala His Thr Asn				
225	230	235		240
Arg Lys Glu Tyr Thr Leu Met Lys Ala Tyr Arg Val Ala				
	245	250		

<210> 2130  
 <211> 253  
 <212> PRT  
 <213> Homo sapiens

<400> 2130

Met Asp Asn Arg Phe Ala Thr Ala Phe Val Ile Ala Cys Val Leu Ser				
1	5	10	15	
Leu Ile Ser Thr Ile Tyr Met Ala Ala Ser Ile Gly Thr Asp Phe Trp				
	20	25	30	
Tyr Glu Tyr Arg Ser Pro Val Gln Glu Asn Ser Ser Asp Leu Asn Lys				
	35	40	45	
Ser Ile Trp Asp Glu Phe Ile Ser Asp Glu Ala Asp Glu Lys Thr Tyr				
50	55	60		
Asn Asp Ala Leu Phe Arg Tyr Asn Gly Thr Val Gly Leu Trp Arg Arg				
65	70	75	80	
Cys Ile Thr Ile Pro Lys Asn Met His Trp Tyr Ser Pro Pro Glu Arg				
	85	90	95	
Thr Glu Ser Phe Asp Val Val Thr Lys Cys Val Ser Phe Thr Leu Thr				
	100	105	110	
Glu Gln Phe Met Glu Lys Phe Val Asp Pro Gly Asn His Asn Ser Gly				
	115	120	125	
Ile Asp Leu Leu Arg Thr Tyr Leu Trp Arg Cys Gln Phe Leu Leu Pro				
130	135	140		

Phe Val Ser Leu Gly Leu Met Cys Phe Gly Ala Leu Ile Gly Leu Cys  
 145 150 155 160  
 Ala Cys Ile Cys Arg Ser Leu Tyr Pro Thr Ile Ala Thr Gly Ile Leu  
 165 170 175  
 His Leu Leu Ala Gly Leu Cys Thr Leu Gly Ser Val Ser Cys Tyr Val  
 180 185 190  
 Ala Gly Ile Glu Leu Leu His Gln Lys Leu Glu Leu Pro Asp Asn Val  
 195 200 205  
 Ser Gly Glu Phe Gly Trp Ser Phe Cys Leu Ala Cys Val Ser Ala Pro  
 210 215 220  
 Leu Gln Phe Met Ala Ser Ala Leu Phe Ile Trp Ala Ala His Thr Asn  
 225 230 235 240  
 Arg Lys Glu Tyr Thr Leu Met Lys Ala Tyr Arg Val Ala  
 245 250

<210> 2131  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 2131  
 Met Phe Phe Gln Gly Trp Val Asp Arg Trp Leu Leu Gly Cys Leu Ala  
 1 5 10 15  
 Pro Gly Gly Phe Ala Ile His Glu Ala Arg Ala Gly Asn Thr Val Ser  
 20 25 30  
 Leu Pro Met Val Asp Pro Cys Glu Cys Gln Glu Ala Ser Ser Ser Val  
 35 40 45  
 Leu Glu Met Ile Ser Ala Thr Ile Leu  
 50 55

<210> 2132  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 2132  
 Met Asn Leu Met Val Arg Leu Leu Ala Leu Gly Leu Ile Ser Gly Met  
 1 5 10 15  
 Met Ser Asn Ile Thr Gln Ser His Ser Ser Lys Ile Ser Ala Phe Gly  
 20 25 30  
 Ile Phe Ile Gly Pro Glu Gln Phe Leu

35

40

<210> 2133  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 2133  
 Met Ser Leu Glu Pro Ser Thr Ser Ser Phe Asn Ile Leu Leu Phe Pro  
   1                  5                  10                  15  
 Ala Phe Leu Arg Val Phe Gly Trp Ala Leu Gly Trp Met Pro Trp Glu  
                   20                  25                  30  
 Tyr Leu Tyr Leu Ser Ser Lys Val Thr Asn Gly Glu Thr Gly Thr Gln  
           35                  40                  45  
 Arg Gly Thr  
       50

<210> 2134  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2134  
 Met Phe Phe Pro Cys Leu Pro Thr Leu Xaa Leu Arg Ile Leu His Ser  
   1                  5                  10                  15  
 Gly Trp Val Gly Leu Phe Leu Leu Ile Ser Ser Arg Ala Pro Ser Ser  
           20                  25                  30  
 Ser Leu Ala Trp Lys His Gly Pro Gly Xaa Leu Trp Trp Pro Arg Arg  
           35                  40                  45  
 Pro Leu Arg Ser Cys Thr Gly Leu Ala Ser Cys Gly  
       50                  55                  60

<210> 2135  
 <211> 60  
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2135

Met Phe Phe Pro Cys Leu Pro Thr Leu Xaa Leu Arg Ile Leu His Ser  
1 5 10 15

Gly Trp Val Gly Leu Phe Leu Leu Ile Ser Ser Arg Ala Pro Ser Ser  
20 25 30

Ser Leu Ala Trp Lys His Gly Pro Gly Glu Leu Trp Trp Pro Arg Xaa  
35 40 45

Pro Leu Arg Ser Cys Thr Gly Leu Ala Ser Cys Gly  
50 55 60

<210> 2136

<211> 78

<212> PRT

<213> Homo sapiens

<400> 2136

Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu  
1 5 10 15

Trp Leu Val Leu Ser Cys Leu Cys Pro Ser Ser Pro His Pro Val Ile  
20 25 30

Ser Gly Leu Pro Gln Trp Tyr Ile Gly Val Leu Ala Gly Ile Val Pro  
35 40 45

Val Ala Pro Ile Arg Pro Gly Asp Ser Gly Leu Asp Leu Gln Arg Glu  
50 55 60

Gly Pro Gln Pro Ile Leu Ser Gln Gly Leu Asn Arg Arg Thr  
65 70 75

<210> 2137

<211> 78

<212> PRT

<213> Homo sapiens

<400> 2137

Met Ser Pro His Gln Pro Met Gln Val Ser Ser Ser Lys Thr Ile Leu

1	5	10	15												
Trp	Leu	Val	Leu	Ser	Cys	Leu	Cys	Pro	Ser	Ser	Pro	His	Pro	Val	Ile
			20					25					30		
Ser	Gly	Leu	Pro	Gln	Trp	Tyr	Ile	Gly	Val	Leu	Ala	Gly	Ile	Val	Pro
		35					40					45			
Val	Ala	Pro	Ile	Arg	Pro	Gly	Asp	Ser	Gly	Leu	Asp	Leu	Gln	Arg	Glu
	50					55					60				
Gly	Pro	Gln	Pro	Ile	Leu	Ser	Gln	Gly	Leu	Asn	Arg	Arg	Thr		
65					70					75					

<210> 2138  
 <211> 144  
 <212> PRT  
 <213> Homo sapiens

<400> 2138
Met Ser Ala Val Ser Ala Pro Ala Leu Trp Gln Thr Trp Cys Val Pro
1 5 10 15
Ala Ala Arg Ala Trp Thr Ser Ser Thr Leu Arg His Asp Ala Val Ala
20 25 30
Arg Pro Asn Pro Ser Thr Ser Leu Thr Pro Gly Leu Leu Thr Ser Ser
35 40 45
Asp Ser Pro Arg Trp Pro Gly Leu Gln Glu Ala Pro Gly Arg Pro Cys
50 55 60
Ile Arg Leu Gly Arg Ser Glu Leu Cys Met Tyr Ile Tyr Thr Tyr Ile
65 70 75 80
Asp Thr Phe Ile Ile Tyr Thr His Ser Leu Tyr Ile Tyr Ile His Cys
85 90 95
Phe Leu Ala Pro Glu Leu Ile Trp Val Gln Ala His Phe Lys Thr Leu
100 105 110
Pro Gly Gly Gly Cys Phe Phe Ser Gly Phe Leu Ala Arg Glu Glu Gly
115 120 125
Glu Gly Thr Gly Trp Val Phe Ser Leu Lys Arg Glu Ser Arg Arg Phe
130 135 140

<210> 2139  
 <211> 151  
 <212> PRT

<213> Homo sapiens

<400> 2139

Met	Leu	His	Trp	Val	Leu	Ser	Phe	Phe	Phe	Leu	Leu	Ser	Cys	Pro	Arg	
1				5					10					15		
Thr	Glu	Gly	Leu	Pro	Gly	Leu	Tyr	Cys	Pro	Gly	Cys	Ser	Gln	Cys	Pro	
			20					25					30			
Gly	Arg	Gly	Met	Trp	Pro	Gly	Asp	Pro	Gly	Pro	Gly	Ile	Gln	Gly	Pro	
		35					40					45				
Gly	Leu	Asp	Leu	Arg	Thr	Gly	Met	Glu	Ala	Thr	Gly	Ala	Gln	Gln	Pro	
	50					55					60					
Thr	Leu	Ser	Ser	Pro	His	Cys	Leu	Leu	Ser	Leu	Pro	Thr	Leu	Pro	Ala	
65					70					75					80	
Arg	Ala	Val	Gln	Leu	Arg	Trp	Asp	Leu	Ser	Ile	Ser	Arg	Ala	Gly	Gly	
				85					90					95		
Arg	Val	Ala	Val	Leu	Gly	Leu	Cys	Leu	Glu	Pro	Gly	Gly	Ser	Leu	Leu	
			100					105					110			
Leu	Pro	Pro	Ser	Ala	Leu	Pro	Glu	Thr	Asp	Pro	Cys	Ala	Ala	Cys	Pro	
		115					120					125				
Pro	Cys	Pro	Phe	Val	Pro	Met	Ser	Gly	Gly	Gly	Gly	Arg	Pro	Thr	Val	
	130					135					140					
Pro	Glu	Ala	Gly	His	Gln	Pro										
145					150											

<210> 2140

<211> 173

<212> PRT

<213> Homo sapiens

<400> 2140

Met	Pro	Pro	Tyr	Thr	Pro	Phe	Phe	Gly	Thr	Arg	Ala	Leu	Leu	Ser	Val	
1				5					10					15		
Ser	Leu	Pro	Pro	Pro	Cys	Met	Leu	His	Trp	Val	Leu	Ser	Phe	Phe	Phe	
			20					25					30			
Leu	Leu	Ser	Cys	Pro	Arg	Thr	Glu	Gly	Leu	Pro	Gly	Leu	Tyr	Cys	Pro	
		35					40					45				
Gly	Cys	Ser	Gln	Cys	Pro	Gly	Arg	Gly	Met	Trp	Pro	Gly	Asp	Pro	Gly	
	50					55					60					
Pro	Gly	Ile	Gln	Gly	Pro	Gly	Leu	Asp	Leu	Arg	Thr	Gly	Met	Glu	Ala	
65					70					75					80	
Thr	Gly	Ala	Gln	Gln	Pro	Thr	Leu	Ser	Ser	Pro	His	Cys	Leu	Leu	Ser	

	85		90		95										
Leu	Pro	Thr	Leu	Pro	Ala	Arg	Ala	Val	Gln	Leu	Arg	Trp	Asp	Leu	Ser
			100					105					110		
Ile	Ser	Arg	Ala	Gly	Gly	Arg	Val	Ala	Val	Leu	Gly	Leu	Cys	Leu	Glu
		115					120					125			
Pro	Gly	Gly	Ser	Leu	Leu	Leu	Pro	Pro	Ser	Ala	Leu	Pro	Glu	Thr	Asp
	130					135					140				
Pro	Cys	Ala	Ala	Cys	Pro	Pro	Cys	Pro	Phe	Val	Pro	Met	Ser	Gly	Gly
145					150					155					160
Gly	Gly	Arg	Pro	Thr	Val	Pro	Glu	Ala	Gly	His	Gln	Pro			
				165					170						

<210> 2141  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 2141

Met	Asn	Arg	Ser	Thr	Arg	Ser	Tyr	Arg	Cys	Trp	Ala	Thr	Trp	Pro	Arg
1				5					10					15	
Leu	Gly	Trp	Ala	Leu	Pro	Cys	Cys	Met	Asn	Ser	Leu	Arg	Lys	Gly	Arg
			20					25					30		
Lys	Phe	Ser	Gln	Ile	Thr	Thr	Ser	Leu	Met	Ala	Ser	Val	Ser	Ser	Ala
		35					40					45			
Ser	Met	Val	Ser	Arg	Arg	Arg	Arg	Pro	Leu	Pro	Lys	His	Pro	Val	Thr
	50					55					60				
Thr	Thr	Ser	Thr	Ala	Thr	Ala	Leu	Leu	Gly	Thr	Ser	Ser	Thr	Trp	Ser
65					70					75					80

Lys Ser

<210> 2142  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 2142

Met	Gly	Gln	Arg	Gly	Val	Phe	Leu	Leu	Ile	Leu	Asp	Ala	Phe	Ser	Val
1				5					10					15	
Pro	Ser	Thr	Ala	Ser	Cys	Leu	Ile	Thr	Pro	Leu	Pro	Pro	Pro	His	Pro
			20					25					30		



Gln Pro Ser Gln Phe Phe Leu Ala Ser Ala Leu Gln Pro Tyr Leu Gly  
35 40 45

Lys Glu Glu Trp Val  
50

<210> 2143  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 2143  
Met Gly Gln Arg Gly Val Phe Leu Leu Ile Leu Asp Ala Phe Ser Val  
1 5 10 15

Pro Ser Thr Ala Ser Cys Leu Ile Thr Pro Leu Pro Pro Pro His Pro  
20 25 30

Gln Pro Ser Gln Phe Phe Leu Ala Ser Ala Leu Gln Pro Tyr Leu Gly  
35 40 45

Lys Glu Glu Trp Val  
50

<210> 2144  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 2144  
Met Gly Gln Arg Gly Val Phe Leu Leu Ile Leu Asp Ala Phe Ser Val  
1 5 10 15

Pro Ser Thr Ala Ser Cys Leu Ile Thr Pro Leu Pro Pro Pro His Pro  
20 25 30

Gln Pro Ser Gln Phe Phe Leu Ala Ser Ala Leu Gln Pro Tyr Leu Gly  
35 40 45

Lys Glu Glu Trp Val  
50

<210> 2145  
<211> 97  
<212> PRT  
<213> Homo sapiens

<400> 2145  
Met Leu Trp Lys Leu Lys Leu Ser Arg Cys Trp Leu Asp Leu Thr Leu  
1 5 10 15

Leu Ile Phe Ser Gln Ile Ser His Met Asp Gln Ile Ile Phe Phe Phe  
                   20                                  25                                  30  
 Val Val Tyr Pro Ile Leu Asn Asn Ile Phe Ser Leu Asn Tyr Cys Arg  
                   35                                  40                                  45  
 Asp Phe Phe Cys Gly Gly Tyr Phe Leu Phe Cys Ser Lys Ile Ile Arg  
                   50                                  55                                  60  
 Cys Lys Ala Ile Leu Cys Leu Thr Val Ala Leu Ser Lys Gln Leu Cys  
                   65                                  70                                  75                                  80  
 Ser Gly Val Ala Phe Asp Val Leu Glu Phe Asp Tyr Met Gln Ser Cys  
                                   85                                  90                                  95

Ile

<210> 2146  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (63)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (99)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (122)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2146  
 Met Met Thr Met Thr Ser Asp Arg Trp Phe Ser Met Ala Trp Ala Ser  
           1                                  5                                  10                                  15  
 Cys Ser Leu Ser Arg Pro Pro Leu Thr Pro Ser Cys Ser Cys Gln Gln  
                   20                                  25                                  30  
 Pro Ala Thr Val Ala Leu Leu Leu Gln Thr Ile Ser Val Cys Ser Ala  
                   35                                  40                                  45  
 Gln Gln Ala Asp Pro Leu Ser Pro Pro Arg Ala Cys Arg Pro Xaa Arg  
                   50                                  55                                  60  
 Gln Phe Pro Val Leu Gln Ser Ala Gly Pro Pro His Ser Pro His Val  
                   65                                  70                                  75                                  80  
 Tyr Ala Phe Val Leu Phe Pro Val Ser Ser Arg Trp Gln Gly Gly Asp

				85					90					95		
Phe	Cys	Xaa	Ile	Cys	Cys	Cys	Phe	Pro	Gln	Cys	Leu	Gly	Arg	Cys	Leu	
			100					105					110			
Glu	His	Thr	Arg	Cys	Ser	Ile	Asn	Pro	Xaa							
		115					120									

<210> 2147  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 2147  
 Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser  
   1                  5                  10                  15  
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys  
                   20                  25                  30  
 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys  
           35                  40                  45  
 Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln  
   50                  55                  60  
 Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly  
   65                  70                  75                  80  
 Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Arg Ser Pro Trp His  
                   85                  90                  95  
 Pro Gly Asn

<210> 2148  
 <211> 245  
 <212> PRT  
 <213> Homo sapiens

<400> 2148  
 Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser  
   1                  5                  10                  15  
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys  
                   20                  25                  30  
 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys  
           35                  40                  45  
 Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln  
   50                  55                  60

Gly	Leu	Lys	Gly	Asp	Gln	Gly	Glu	Pro	Gly	Pro	Ser	Gly	Asn	Pro	Gly	
65					70					75					80	
Lys	Val	Gly	Tyr	Pro	Gly	Pro	Ser	Gly	Pro	Leu	Gly	Ala	Arg	Gly	Ile	
				85					90					95		
Pro	Gly	Ile	Lys	Gly	Thr	Lys	Gly	Ser	Pro	Gly	Asn	Ile	Lys	Asp	Gln	
			100					105					110			
Pro	Arg	Pro	Ala	Phe	Ser	Ala	Ile	Arg	Arg	Asn	Pro	Pro	Met	Gly	Gly	
		115					120						125			
Asn	Val	Val	Ile	Phe	Asp	Thr	Val	Ile	Thr	Asn	Gln	Glu	Glu	Pro	Tyr	
	130					135					140					
Gln	Asn	His	Ser	Gly	Arg	Phe	Val	Cys	Thr	Val	Pro	Gly	Tyr	Tyr	Tyr	
145					150					155					160	
Phe	Thr	Phe	Gln	Val	Leu	Ser	Gln	Trp	Glu	Ile	Cys	Leu	Ser	Ile	Val	
			165						170					175		
Ser	Ser	Ser	Arg	Gly	Gln	Val	Arg	Arg	Ser	Leu	Gly	Phe	Cys	Asp	Thr	
			180					185					190			
Thr	Asn	Lys	Gly	Leu	Phe	Gln	Val	Val	Ser	Gly	Gly	Met	Val	Leu	Gln	
		195					200					205				
Leu	Gln	Gln	Gly	Asp	Gln	Val	Trp	Val	Glu	Lys	Asp	Pro	Lys	Lys	Gly	
	210					215					220					
His	Ile	Tyr	Gln	Gly	Ser	Glu	Ala	Asp	Ser	Val	Phe	Ser	Gly	Phe	Leu	
225					230					235					240	
Ile	Phe	Pro	Ser	Ala												
				245												

<210> 2149  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 2149  
 Met Gly His Leu His Trp Gly Val Ser Gly Asn Phe Phe Phe Pro Arg  
 1 5 10 15  
 Leu Ser Leu Phe Leu Leu Phe Ala Trp Leu Gln Ile Thr Gln Ala Asn  
 20 25 30  
 Glu Pro Arg Leu Pro Gly Lys Tyr Ser Ile Lys Ala Ile Lys Ile Thr  
 35 40 45  
 Ile Cys Ile Thr Phe Arg Thr Ser Ala  
 50 55

<210> 2150  
<211> 152  
<212> PRT  
<213> Homo sapiens

<400> 2150

Met Gly Val His Val Gly Ala Ala Leu Gly Ala Leu Trp Phe Cys Leu  
1 5 10 15

Thr Gly Ala Leu Glu Val Gln Val Pro Glu Asp Pro Val Val Ala Leu  
20 25 30

Val Gly Thr Asp Ala Thr Leu Cys Cys Ser Phe Ser Pro Glu Pro Gly  
35 40 45

Phe Ser Leu Ala Gln Leu Asn Leu Ile Trp Gln Leu Thr Asp Thr Lys  
50 55 60

Gln Leu Val His Ser Phe Ala Glu Gly Gln Asp Gln Gly Ser Ala Tyr  
65 70 75 80

Ala Asn Arg Thr Ala Leu Phe Leu Asp Leu Leu Ala Gln Gly Asn Ala  
85 90 95

Ser Leu Arg Leu Gln Ser Val Arg Val Ala Asp Glu Gly Gln Leu His  
100 105 110

Leu Leu Arg Glu His Pro Gly Phe Arg Gln Arg Cys Arg Gln Pro Ala  
115 120 125

Gly Gly Arg Ser Leu Leu Glu Ala Gln His Asp Pro Gly Ala Gln Gln  
130 135 140

Gly Pro Ala Ala Arg Gly Thr Trp  
145 150

<210> 2151  
<211> 302  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2151

Met Arg Leu Gly Ser Pro Gly Leu Leu Phe Leu Leu Phe Ser Ser Leu  
1 5 10 15

Arg Ala Asp Thr Gln Glu Lys Glu Val Arg Ala Met Val Gly Ser Asp  
20 25 30

Val Glu Leu Ser Cys Ala Cys Pro Glu Gly Ser Arg Phe Asp Leu Asn

	35		40		45											
Asp	Val	Tyr	Val	Tyr	Trp	Gln	Thr	Ser	Glu	Ser	Lys	Thr	Val	Val	Thr	
	50					55					60					
Tyr	His	Ile	Pro	Gln	Asn	Ser	Ser	Leu	Glu	Asn	Val	Asp	Ser	Arg	Tyr	
	65				70					75					80	
Arg	Asn	Arg	Ala	Leu	Met	Ser	Pro	Ala	Gly	Met	Leu	Arg	Gly	Asp	Phe	
				85					90					95		
Ser	Leu	Arg	Leu	Phe	Asn	Val	Thr	Pro	Gln	Asp	Glu	Gln	Lys	Phe	His	
			100					105					110			
Cys	Leu	Val	Leu	Ser	Gln	Ser	Leu	Gly	Phe	Gln	Glu	Val	Leu	Ser	Xaa	
	115						120					125				
Glu	Val	Thr	Leu	His	Val	Ala	Ala	Asn	Phe	Ser	Val	Pro	Val	Val	Ser	
	130					135					140					
Ala	Pro	His	Ser	Pro	Ser	Gln	Asp	Glu	Leu	Thr	Phe	Thr	Cys	Thr	Ser	
	145				150					155					160	
Ile	Asn	Gly	Tyr	Pro	Arg	Pro	Asn	Val	Tyr	Trp	Ile	Asn	Lys	Thr	Asp	
				165					170					175		
Asn	Ser	Leu	Leu	Asp	Gln	Ala	Leu	Gln	Asn	Asp	Thr	Val	Phe	Leu	Asn	
			180					185					190			
Met	Arg	Gly	Leu	Tyr	Asp	Val	Val	Ser	Val	Leu	Arg	Ile	Ala	Arg	Thr	
	195						200					205				
Pro	Ser	Val	Asn	Ile	Gly	Cys	Cys	Ile	Glu	Asn	Val	Leu	Leu	Gln	Gln	
	210					215					220					
Asn	Leu	Thr	Val	Gly	Ser	Gln	Thr	Gly	Asn	Asp	Ile	Gly	Glu	Arg	Asp	
	225				230				235						240	
Lys	Ile	Thr	Glu	Asn	Pro	Val	Ser	Thr	Gly	Glu	Lys	Asn	Ala	Ala	Thr	
				245					250					255		
Trp	Ser	Ile	Leu	Ala	Val	Leu	Cys	Leu	Leu	Val	Val	Val	Ala	Val	Ala	
			260					265					270			
Ile	Gly	Trp	Val	Cys	Arg	Asp	Arg	Cys	Leu	Gln	His	Ser	Tyr	Ala	Gly	
	275						280					285				
Ala	Trp	Ala	Val	Ser	Pro	Glu	Thr	Glu	Leu	Thr	Gly	His	Val			
	290					295					300					

<210> 2152  
 <211> 316  
 <212> PRT  
 <213> Homo sapiens

<400> 2152

Met	Leu	Arg	Arg	Arg	Gly	Ser	Pro	Gly	Met	Gly	Val	His	Val	Gly	Ala
1				5				10						15	
Ala	Leu	Gly	Ala	Leu	Trp	Phe	Cys	Leu	Thr	Gly	Ala	Leu	Glu	Val	Gln
			20					25					30		
Val	Pro	Glu	Asp	Pro	Val	Val	Ala	Leu	Val	Gly	Thr	Asp	Ala	Thr	Leu
		35					40					45			
Cys	Cys	Ser	Phe	Ser	Pro	Glu	Pro	Gly	Phe	Ser	Leu	Ala	Gln	Leu	Asn
	50					55					60				
Leu	Ile	Trp	Gln	Leu	Thr	Asp	Thr	Lys	Gln	Leu	Val	His	Ser	Phe	Ala
65					70				75						80
Glu	Gly	Gln	Asp	Gln	Gly	Ser	Ala	Tyr	Ala	Asn	Arg	Thr	Ala	Leu	Phe
				85					90					95	
Pro	Asp	Leu	Leu	Ala	Gln	Gly	Asn	Ala	Ser	Leu	Arg	Leu	Gln	Arg	Val
		100						105					110		
Arg	Val	Ala	Asp	Glu	Gly	Ser	Phe	Thr	Cys	Phe	Val	Ser	Ile	Arg	Asp
		115					120					125			
Phe	Gly	Ser	Ala	Ala	Val	Ser	Leu	Gln	Val	Ala	Ala	Pro	Tyr	Ser	Lys
	130					135					140				
Pro	Ser	Met	Thr	Leu	Glu	Pro	Asn	Lys	Asp	Leu	Arg	Pro	Gly	Asp	Thr
145					150					155					160
Val	Thr	Ile	Thr	Cys	Ser	Ser	Tyr	Gln	Gly	Tyr	Pro	Glu	Ala	Glu	Val
				165					170					175	
Phe	Trp	Gln	Asp	Gly	Gln	Gly	Val	Pro	Leu	Thr	Gly	Asn	Val	Thr	Thr
			180					185					190		
Ser	Gln	Met	Ala	Asn	Glu	Gln	Gly	Leu	Phe	Asp	Val	His	Ser	Ile	Leu
		195					200					205			
Arg	Val	Val	Leu	Gly	Ala	Asn	Gly	Thr	Tyr	Ser	Cys	Leu	Val	Arg	Asn
	210					215					220				
Pro	Val	Leu	Gln	Gln	Asp	Ala	His	Ser	Ser	Val	Thr	Ile	Thr	Gly	Gln
225					230					235					240
Pro	Met	Thr	Phe	Pro	Pro	Glu	Ala	Leu	Trp	Val	Thr	Val	Gly	Leu	Ser
				245					250					255	
Val	Cys	Leu	Ile	Ala	Leu	Leu	Val	Ala	Leu	Ala	Phe	Val	Cys	Trp	Arg
			260					265					270		
Lys	Ile	Lys	Gln	Ser	Cys	Glu	Glu	Glu	Asn	Ala	Gly	Ala	Glu	Asp	Gln
	275						280					285			
Asp	Gly	Glu	Gly	Glu	Gly	Ser	Lys	Thr	Ala	Leu	Gln	Pro	Leu	Lys	His
	290					295					300				

Ser Asp Ser Lys Glu Asp Asp Gly Gln Glu Ile Ala  
305 310 315

<210> 2153  
<211> 831  
<212> PRT  
<213> Homo sapiens

<400> 2153  
Met Lys Val His Met His Thr Lys Phe Cys Leu Ile Cys Leu Leu Thr  
1 5 10 15  
Phe Ile Phe His His Cys Asn His Cys His Glu Glu His Asp His Gly  
20 25 30  
Pro Glu Ala Leu His Arg Gln His Arg Gly Met Thr Glu Leu Glu Pro  
35 40 45  
Ser Lys Phe Ser Lys Gln Ala Ala Glu Asn Glu Lys Lys Tyr Tyr Ile  
50 55 60  
Glu Lys Leu Phe Glu Arg Tyr Gly Glu Asn Gly Arg Leu Ser Phe Phe  
65 70 75 80  
Gly Leu Glu Lys Leu Leu Thr Asn Leu Gly Leu Gly Glu Arg Lys Val  
85 90 95  
Val Glu Ile Asn His Glu Asp Leu Gly His Asp His Val Ser His Leu  
100 105 110  
Asp Ile Leu Ala Val Gln Glu Gly Lys His Phe His Ser His Asn His  
115 120 125  
Gln His Ser His Asn His Leu Asn Ser Glu Asn Gln Thr Val Thr Ser  
130 135 140  
Val Ser Thr Lys Arg Asn His Lys Cys Asp Pro Glu Lys Glu Thr Val  
145 150 155 160  
Glu Val Ser Val Lys Ser Asp Asp Lys His Met His Asp His Asn His  
165 170 175  
Arg Leu Arg His His His Arg Leu His His His Leu Asp His Asn Asn  
180 185 190  
Thr His His Phe His Asn Asp Ser Ile Thr Pro Ser Glu Arg Gly Glu  
195 200 205  
Pro Ser Asn Glu Pro Ser Thr Glu Thr Asn Lys Thr Gln Glu Gln Ser  
210 215 220  
Asp Val Lys Leu Pro Lys Gly Lys Arg Lys Lys Lys Gly Arg Lys Ser  
225 230 235 240



Asn	Glu	Asn	Ser	Glu	Val	Ile	Thr	Pro	Gly	Phe	Pro	Pro	Asn	His	Asp	
				245					250					255		
Gln	Gly	Glu	Gln	Tyr	Glu	His	Asn	Arg	Val	His	Lys	Pro	Asp	Arg	Val	
			260					265					270			
His	Asn	Pro	Gly	His	Ser	His	Val	His	Leu	Pro	Glu	Arg	Asn	Gly	His	
		275					280					285				
Asp	Pro	Gly	Arg	Gly	His	Gln	Asp	Leu	Asp	Pro	Asp	Asn	Glu	Gly	Glu	
	290					295					300					
Leu	Arg	His	Thr	Arg	Lys	Arg	Glu	Ala	Pro	His	Val	Lys	Asn	Asn	Ala	
305					310					315					320	
Ile	Ile	Ser	Leu	Arg	Lys	Asp	Leu	Asn	Glu	Asp	Asp	His	His	His	Glu	
			325						330					335		
Cys	Leu	Asn	Val	Thr	Gln	Leu	Leu	Lys	Tyr	Tyr	Gly	His	Gly	Ala	Asn	
			340					345					350			
Ser	Pro	Ile	Ser	Thr	Asp	Leu	Phe	Thr	Tyr	Leu	Cys	Pro	Ala	Leu	Leu	
		355					360					365				
Tyr	Gln	Ile	Asp	Ser	Arg	Leu	Cys	Ile	Glu	His	Phe	Asp	Lys	Leu	Leu	
	370					375					380					
Val	Glu	Asp	Ile	Asn	Lys	Asp	Lys	Asn	Leu	Val	Pro	Glu	Asp	Glu	Ala	
385					390					395					400	
Asn	Ile	Gly	Ala	Ser	Ala	Trp	Ile	Cys	Gly	Ile	Ile	Ser	Ile	Thr	Val	
				405					410					415		
Ile	Ser	Leu	Leu	Ser	Leu	Leu	Gly	Val	Ile	Leu	Val	Pro	Ile	Ile	Asn	
			420					425					430			
Gln	Gly	Cys	Phe	Lys	Phe	Leu	Leu	Thr	Phe	Leu	Val	Ala	Leu	Ala	Val	
		435					440					445				
Gly	Thr	Met	Ser	Gly	Asp	Ala	Leu	Leu	His	Leu	Leu	Pro	His	Ser	Gln	
	450					455						460				
Gly	Gly	His	Asp	His	Ser	His	Gln	His	Ala	His	Gly	His	Gly	His	Ser	
465					470					475					480	
His	Gly	His	Glu	Ser	Asn	Lys	Phe	Leu	Glu	Glu	Tyr	Asp	Ala	Val	Leu	
				485					490					495		
Lys	Gly	Leu	Val	Ala	Leu	Gly	Gly	Ile	Tyr	Leu	Leu	Phe	Ile	Ile	Glu	
			500					505					510			
His	Cys	Ile	Arg	Met	Phe	Lys	His	Tyr	Lys	Gln	Gln	Arg	Gly	Lys	Gln	
		515					520					525				
Lys	Trp	Phe	Met	Lys	Gln	Asn	Thr	Glu	Glu	Ser	Thr	Ile	Gly	Arg	Lys	
	530					535					540					

Leu	Ser	Asp	His	Lys	Leu	Asn	Asn	Thr	Pro	Asp	Ser	Asp	Trp	Leu	Gln	545	550	555	560
Leu	Lys	Pro	Leu	Ala	Gly	Thr	Asp	Asp	Ser	Val	Val	Ser	Glu	Asp	Arg	565	570	575	
Leu	Asn	Glu	Thr	Glu	Leu	Thr	Asp	Leu	Glu	Gly	Gln	Gln	Glu	Ser	Pro	580	585	590	
Pro	Lys	Asn	Tyr	Leu	Cys	Ile	Glu	Glu	Glu	Lys	Ile	Ile	Asp	His	Ser	595	600	605	
His	Ser	Asp	Gly	Leu	His	Thr	Ile	His	Glu	His	Asp	Leu	His	Ala	Ala	610	615	620	
Ala	His	Asn	His	His	Gly	Glu	Asn	Lys	Thr	Val	Leu	Arg	Lys	His	Asn	625	630	635	640
His	Gln	Trp	His	His	Lys	His	Ser	His	His	Ser	His	Gly	Pro	Cys	His	645	650	655	
Ser	Gly	Ser	Asp	Leu	Lys	Glu	Thr	Gly	Ile	Ala	Asn	Ile	Ala	Trp	Met	660	665	670	
Val	Ile	Met	Gly	Asp	Gly	Ile	His	Asn	Phe	Ser	Asp	Gly	Leu	Ala	Ile	675	680	685	
Gly	Ala	Ala	Phe	Ser	Ala	Gly	Leu	Thr	Gly	Gly	Ile	Ser	Thr	Ser	Ile	690	695	700	
Ala	Val	Phe	Cys	His	Glu	Leu	Pro	His	Glu	Leu	Gly	Asp	Phe	Ala	Val	705	710	715	720
Leu	Leu	Lys	Ala	Gly	Met	Thr	Val	Lys	Gln	Ala	Ile	Val	Tyr	Asn	Leu	725	730	735	
Leu	Ser	Ala	Met	Met	Ala	Tyr	Ile	Gly	Met	Leu	Ile	Gly	Thr	Ala	Val	740	745	750	
Gly	Gln	Tyr	Ala	Asn	Asn	Ile	Thr	Leu	Trp	Ile	Phe	Ala	Val	Thr	Ala	755	760	765	
Gly	Met	Phe	Leu	Tyr	Val	Ala	Leu	Val	Asp	Met	Leu	Pro	Glu	Met	Leu	770	775	780	
His	Gly	Asp	Gly	Asp	Asn	Glu	Glu	His	Gly	Phe	Cys	Pro	Val	Gly	Gln	785	790	795	800
Phe	Ile	Leu	Gln	Asn	Leu	Gly	Leu	Leu	Phe	Gly	Phe	Ala	Ile	Met	Leu	805	810	815	
Val	Ile	Ala	Leu	Tyr	Glu	Asp	Lys	Ile	Val	Phe	Asp	Ile	Gln	Phe		820	825	830	

<211> 480  
<212> PRT  
<213> Homo sapiens

<400> 2154

Met	Leu	Phe	Arg	Asn	Arg	Phe	Leu	Leu	Leu	Leu	Ala	Leu	Ala	Ala	Leu
1				5					10					15	
Leu	Ala	Phe	Val	Ser	Leu	Ser	Leu	Gln	Phe	Phe	His	Leu	Ile	Pro	Val
			20					25					30		
Ser	Thr	Pro	Lys	Asn	Gly	Met	Ser	Ser	Lys	Ser	Arg	Lys	Arg	Ile	Met
		35					40					45			
Pro	Asp	Pro	Val	Thr	Glu	Pro	Pro	Val	Thr	Asp	Pro	Val	Tyr	Glu	Ala
	50					55					60				
Leu	Leu	Tyr	Cys	Asn	Ile	Pro	Ser	Val	Ala	Glu	Arg	Ser	Met	Glu	Gly
65					70					75					80
His	Ala	Pro	His	His	Phe	Lys	Leu	Val	Ser	Val	His	Val	Phe	Ile	Arg
				85					90					95	
His	Gly	Asp	Arg	Tyr	Pro	Leu	Tyr	Val	Ile	Pro	Lys	Thr	Lys	Arg	Pro
			100					105					110		
Glu	Ile	Asp	Cys	Thr	Leu	Val	Ala	Asn	Arg	Lys	Pro	Tyr	His	Pro	Lys
		115					120					125			
Leu	Glu	Ala	Phe	Ile	Ser	His	Met	Ser	Lys	Gly	Ser	Gly	Ala	Ser	Phe
	130					135					140				
Glu	Ser	Pro	Leu	Asn	Ser	Leu	Pro	Leu	Tyr	Pro	Asn	His	Pro	Leu	Cys
145					150					155					160
Glu	Met	Gly	Glu	Leu	Thr	Gln	Thr	Gly	Val	Val	Gln	His	Leu	Gln	Asn
				165					170					175	
Gly	Gln	Leu	Leu	Arg	Asp	Ile	Tyr	Leu	Lys	Lys	His	Lys	Leu	Leu	Pro
			180					185					190		
Asn	Asp	Trp	Ser	Ala	Asp	Gln	Leu	Tyr	Leu	Glu	Thr	Thr	Gly	Lys	Ser
		195					200					205			
Arg	Thr	Leu	Gln	Ser	Gly	Leu	Ala	Leu	Leu	Tyr	Gly	Phe	Leu	Pro	Asp
	210					215					220				
Phe	Asp	Trp	Lys	Lys	Ile	Tyr	Phe	Arg	His	Gln	Pro	Ser	Ala	Leu	Phe
225					230					235					240
Cys	Ser	Gly	Ser	Cys	Tyr	Cys	Pro	Val	Arg	Asn	Gln	Tyr	Leu	Glu	Lys
				245					250					255	
Glu	Gln	Arg	Arg	Gln	Tyr	Leu	Leu	Arg	Leu	Lys	Asn	Ser	Gln	Leu	Glu
			260					265					270		
Lys	Thr	Tyr	Gly	Glu	Met	Ala	Lys	Ile	Val	Asp	Val	Pro	Thr	Lys	Gln

275						280						285					
Leu	Arg	Ala	Ala	Asn	Pro	Ile	Asp	Ser	Met	Leu	Cys	His	Phe	Cys	His		
290						295					300						
Asn	Val	Ser	Phe	Pro	Cys	Thr	Arg	Asn	Gly	Cys	Val	Asp	Met	Glu	His		
305					310					315					320		
Phe	Lys	Val	Ile	Lys	Thr	His	Gln	Ile	Glu	Asp	Glu	Arg	Glu	Arg	Arg		
				325					330					335			
Glu	Lys	Lys	Leu	Tyr	Phe	Gly	Tyr	Ser	Leu	Leu	Gly	Ala	His	Pro	Ile		
			340					345					350				
Leu	Asn	Gln	Thr	Ile	Gly	Arg	Met	Gln	Arg	Ala	Thr	Glu	Gly	Arg	Lys		
		355					360					365					
Glu	Glu	Leu	Phe	Ala	Leu	Tyr	Ser	Ala	His	Asp	Val	Thr	Leu	Ser	Pro		
	370						375				380						
Val	Leu	Ser	Ala	Leu	Gly	Leu	Ser	Glu	Ala	Arg	Phe	Pro	Arg	Phe	Ala		
385					390					395					400		
Ala	Arg	Leu	Ile	Phe	Glu	Leu	Trp	Gln	Asp	Arg	Glu	Lys	Pro	Ser	Glu		
				405					410					415			
His	Ser	Val	Arg	Ile	Leu	Tyr	Asn	Gly	Val	Asp	Val	Thr	Phe	His	Thr		
			420					425					430				
Ser	Phe	Cys	Gln	Asp	His	His	Lys	Arg	Ser	Pro	Lys	Pro	Met	Cys	Pro		
		435					440					445					
Leu	Glu	Asn	Leu	Val	Arg	Phe	Val	Lys	Arg	Asp	Met	Phe	Val	Ala	Leu		
	450						455				460						
Gly	Gly	Ser	Gly	Thr	Asn	Tyr	Tyr	Asp	Ala	Cys	His	Arg	Glu	Gly	Phe		
465					470					475					480		

<210> 2155  
 <211> 151  
 <212> PRT  
 <213> Homo sapiens

<400> 2155  
 Met Phe Leu Met Leu Gly Cys Ala Leu Pro Ile Tyr Asn Lys Tyr Trp  
 1 5 10 15  
 Pro Leu Phe Val Leu Phe Phe Tyr Ile Leu Ser Pro Ile Pro Tyr Cys  
 20 25 30  
 Ile Ala Arg Arg Leu Val Asp Asp Thr Asp Ala Met Ser Asn Ala Cys  
 35 40 45

Lys Glu Leu Ala Ile Phe Leu Thr Thr Gly Ile Val Val Ser Ala Phe  
 50 55 60  
 Gly Leu Pro Ile Val Phe Ala Arg Ala His Leu Met Gly Arg Leu Pro  
 65 70 75 80  
 Phe Phe Ser Lys Met Gly Thr Ala Glu Ser Glu Gly Arg Glu Thr Leu  
 85 90 95  
 Thr Gln Gln Leu Pro Leu Pro Ala Ala Ala Met Arg Arg Leu Leu Pro  
 100 105 110  
 Ala Ser Arg Val Ser Thr Gln Pro Val Leu Arg Leu Ala Asp Ser Ala  
 115 120 125  
 Glu Ser Leu Leu Gly Arg Pro Ala Leu Trp Ala Leu Gly Phe Leu Leu  
 130 135 140  
 Cys Pro Pro Ser Gln Ala Gln  
 145 150

<210> 2156  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 2156  
 Met Tyr Met Gln Asp Tyr Trp Arg Thr Trp Leu Lys Gly Leu Arg Gly  
 1 5 10 15  
 Phe Phe Phe Val Gly Val Leu Phe Ser Ala Val Ser Ile Ala Ala Phe  
 20 25 30  
 Cys Thr Phe Leu Val Leu Ala Ile Thr Arg His Gln Ser Leu Thr Asp  
 35 40 45  
 Pro Thr Ser Tyr Tyr Leu Ser Ser Val Trp Ser Phe Ile Ser Phe Lys  
 50 55 60  
 Trp Ala Phe Leu Leu Ser Leu Tyr Ala His Arg Tyr Arg Ala Asp Phe  
 65 70 75 80  
 Ala Asp Ile Ser Ile Leu Ser Asp Phe  
 85

<210> 2157  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 2157  
 Met Arg Gly His Ile Thr Thr Leu Leu Thr Thr Ser Phe Leu Val Phe

1	5	10	15												
Gly	Leu	His	Ile	Ile	Phe	Phe	Leu	Asn	Ile	Ser	Cys	Phe	Asn	Phe	Arg
			20					25					30		
Val	Phe	Ile	Leu	Phe	Glu	Thr	Arg	Pro	Glu	Asp	Ser	Arg	Leu	Tyr	Arg
		35					40					45			
Glu	Arg	Pro	Val	Leu	Pro	Arg	Tyr								
	50					55									

<210> 2158  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 2158
Met Gln Val Lys Asn Ser Ile His Val Thr Phe Val Ala Arg Ile Leu
1 5 10 15
Val Arg Val Leu Ile Cys Leu Ser Thr Ser Glu Ala Ile Leu Ala Arg
20 25 30
Asn His Ile Tyr Val Val Ser Val Thr Asn Ala Ser Val Glu Val Gln
35 40 45
Thr Ser
50

<210> 2159  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 2159
Met Gln Val Lys Asn Ser Ile His Val Thr Phe Val Ala Arg Ile Leu
1 5 10 15
Val Arg Val Leu Ile Cys Leu Ser Thr Ser Glu Ala Ile Leu Ala Arg
20 25 30
Asn His Ile Tyr Val Val Ser Val Thr Asn Ala Ser Val Glu Val Gln
35 40 45
Thr Ser
50

<210> 2160  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 2160

Met Arg Leu Leu Val Leu Ser Ser Leu Leu Cys Ile Leu Leu Leu Cys  
1 5 10 15

Phe Ser Ile Phe Ser Thr Glu Gly Lys Arg Arg Pro Ala Lys Ala Trp  
20 25 30

Ser Gly Arg Arg Thr Arg Leu Cys Cys His Arg Val Pro Ser Pro Asn  
35 40 45

Ser Thr Asn Leu Lys Gly His His Val Arg Leu Cys Lys Pro Cys Lys  
50 55 60

Leu Glu Pro Glu Pro Arg Leu Trp Val Val Pro Gly Ala Leu Pro Gln  
65 70 75 80

Val

<210> 2161

<211> 73

<212> PRT

<213> Homo sapiens

<400> 2161

Met Asn Ile Thr Arg Lys Leu Trp Ser Arg Thr Phe Asn Cys Ser Val  
1 5 10 15

Pro Cys Ser Asp Thr Val Pro Val Ile Ala Val Ser Val Phe Ile Leu  
20 25 30

Phe Leu Pro Val Val Phe Tyr Leu Ser Ser Phe Leu His Ser Glu Gln  
35 40 45

Lys Lys Arg Lys Leu Ile Leu Pro Lys Arg Leu Lys Ser Ser Thr Ser  
50 55 60

Phe Ala Asn Ile Gln Glu Asn Ser Asn  
65 70

<210> 2162

<211> 193

<212> PRT

<213> Homo sapiens

<400> 2162

Met Glu Pro Gly Pro Thr Ala Ala Gln Arg Arg Cys Ser Leu Pro Pro  
1 5 10 15

Trp Leu Pro Leu Gly Leu Leu Leu Trp Ser Gly Leu Ala Leu Gly Ala  
20 25 30



Leu	Pro	Phe	Gly	Ser	Ser	Pro	His	Arg	Val	Phe	His	Asp	Leu	Leu	Ser
		35					40					45			
Glu	Gln	Gln	Leu	Leu	Glu	Val	Glu	Asp	Leu	Ser	Leu	Ser	Leu	Leu	Gln
	50					55					60				
Gly	Gly	Gly	Leu	Gly	Pro	Leu	Ser	Leu	Pro	Pro	Asp	Leu	Pro	Asp	Leu
65					70					75					80
Asp	Pro	Glu	Cys	Arg	Glu	Leu	Leu	Leu	Asp	Phe	Ala	Asn	Ser	Ser	Ala
			85						90					95	
Glu	Leu	Thr	Gly	Cys	Leu	Val	Arg	Ser	Ala	Arg	Pro	Val	Arg	Leu	Cys
			100					105					110		
Gln	Thr	Cys	Tyr	Pro	Leu	Phe	Gln	Gln	Val	Val	Ser	Lys	Met	Asp	Asn
		115					120					125			
Ile	Ser	Arg	Ala	Ala	Gly	Asn	Thr	Ser	Glu	Ser	Gln	Ser	Cys	Ala	Arg
	130					135					140				
Ser	Leu	Leu	Met	Ala	Asp	Arg	Met	Gln	Ile	Val	Val	Ile	Leu	Ser	Glu
145					150					155					160
Phe	Phe	Asn	Thr	Thr	Trp	Gln	Glu	Ala	Asn	Cys	Ala	Asn	Cys	Leu	Thr
				165					170					175	
Asn	Asn	Ser	Glu	Glu	Leu	Ser	Asn	Ser	Thr	Val	Tyr	Phe	Leu	Lys	Ser
			180					185					190		

Ile

<210> 2163  
 <211> 134  
 <212> PRT  
 <213> Homo sapiens

Met	Ala	Pro	Glu	Val	Met	Glu	Gln	Val	Arg	Gly	Tyr	Asp	Phe	Lys	Ala
1				5					10					15	
Asp	Ile	Trp	Ser	Phe	Gly	Ile	Thr	Ala	Ile	Glu	Leu	Ala	Thr	Gly	Ala
			20					25					30		
Ala	Pro	Tyr	His	Lys	Tyr	Pro	Pro	Met	Lys	Val	Leu	Met	Leu	Thr	Leu
		35					40					45			
Gln	Asn	Asp	Pro	Pro	Ser	Leu	Glu	Thr	Gly	Val	Gln	Asp	Lys	Glu	Met
	50					55					60				
Leu	Lys	Lys	Tyr	Gly	Lys	Ser	Phe	Arg	Lys	Met	Ile	Ser	Leu	Cys	Leu
65					70					75					80
Gln	Lys	Asp	Pro	Glu	Lys	Arg	Pro	Thr	Ala	Ala	Glu	Leu	Leu	Arg	His



	85		90		95
Lys Phe Phe Gln Lys Ala Lys Asn Lys Glu Phe Leu Gln Glu Lys Thr					
	100		105		110
Leu Gln Arg Ala Pro Thr Ile Ser Glu Arg Ala Lys Lys Val Arg Arg					
	115		120		125
Val Pro Gly Ser Cys Pro					
	130				

<210> 2164  
 <211> 334  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (105)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2164															
Met	Glu	Pro	Gly	Pro	Thr	Ala	Ala	Gln	Arg	Arg	Cys	Ser	Leu	Pro	Pro
1				5					10					15	
Trp	Leu	Pro	Leu	Gly	Leu	Leu	Leu	Trp	Ser	Gly	Leu	Ala	Leu	Gly	Ala
			20					25					30		
Leu	Pro	Phe	Gly	Ser	Ser	Pro	His	Arg	Val	Phe	His	Asp	Leu	Leu	Ser
		35					40					45			
Glu	Gln	Gln	Leu	Leu	Glu	Val	Glu	Asp	Leu	Ser	Leu	Ser	Leu	Leu	Gln
	50					55					60				
Gly	Gly	Gly	Leu	Gly	Pro	Leu	Ser	Leu	Pro	Pro	Asp	Leu	Pro	Asp	Leu
65					70					75				80	
Asp	Pro	Glu	Cys	Arg	Glu	Leu	Leu	Leu	Asp	Phe	Ala	Asn	Ser	Ser	Ala
				85					90					95	
Glu	Leu	Thr	Gly	Cys	Leu	Val	Arg	Xaa	Ala	Arg	Pro	Val	Arg	Leu	Cys
			100					105					110		
Gln	Thr	Cys	Tyr	Pro	Leu	Phe	Gln	Gln	Val	Val	Ser	Lys	Met	Asp	Asn
		115					120					125			
Ile	Ser	Arg	Ala	Ala	Gly	Asn	Thr	Ser	Glu	Ser	Gln	Ser	Cys	Ala	Arg
	130					135					140				
Ser	Leu	Leu	Met	Ala	Asp	Arg	Met	Gln	Ile	Val	Val	Ile	Leu	Ser	Glu
145					150					155					160
Phe	Phe	Asn	Thr	Thr	Trp	Gln	Glu	Ala	Asn	Cys	Ala	Asn	Cys	Leu	Thr
				165				170						175	

Asn	Asn	Ser	Glu	Glu	Leu	Ser	Asn	Ser	Thr	Val	Tyr	Phe	Leu	Asn	Leu
			180					185					190		
Phe	Asn	His	Thr	Leu	Thr	Cys	Phe	Glu	His	Asn	Leu	Gln	Gly	Asn	Ala
		195					200					205			
His	Ser	Leu	Leu	Gln	Thr	Lys	Asn	Tyr	Ser	Glu	Val	Cys	Lys	Asn	Cys
	210					215					220				
Arg	Glu	Ala	Tyr	Lys	Thr	Leu	Ser	Ser	Leu	Tyr	Ser	Glu	Met	Gln	Lys
225					230					235					240
Met	Asn	Glu	Leu	Glu	Asn	Lys	Ala	Glu	Pro	Gly	Thr	His	Leu	Cys	Ile
				245					250					255	
Asp	Val	Glu	Asp	Ala	Met	Asn	Ile	Thr	Arg	Lys	Leu	Trp	Ser	Arg	Thr
			260					265					270		
Phe	Asn	Cys	Ser	Val	Pro	Cys	Ser	Asp	Thr	Val	Pro	Val	Ile	Ala	Val
		275					280					285			
Ser	Val	Phe	Ile	Leu	Phe	Leu	Pro	Val	Val	Phe	Tyr	Leu	Ser	Ser	Phe
	290					295					300				
Leu	His	Ser	Glu	Gln	Lys	Lys	Arg	Lys	Leu	Ile	Leu	Pro	Lys	Arg	Leu
305					310					315					320
Lys	Ser	Ser	Thr	Ser	Phe	Ala	Asn	Ile	Gln	Glu	Asn	Ser	Asn		
				325					330						

<210> 2165  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 2165															
Met	Val	Leu	Val	Phe	Ala	Tyr	Leu	Cys	Val	Leu	Leu	Ile	Val	Cys	Trp
1				5					10					15	
Val	Thr	Ser	Lys	Thr	Ser	Leu	Ala	Leu	Lys	Tyr	Thr	Val	Tyr	Lys	Asn
			20					25					30		
Phe	Lys	Arg	Leu	Ile	Trp	Asn	Lys	Ser	Ile	Leu	Ile	Ile	Thr	Leu	Thr
		35					40					45			

Pro

<210> 2166  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 2166

Met	Ser	Leu	Ser	Ile	Leu	Val	Ala	Leu	Ser	Leu	Gln	Ile	Leu	Phe	Leu
1				5					10					15	
Phe	Thr	Ile	Leu	Lys	Cys	Met	Leu	Ala	Lys	Trp	Val	Asp	Phe	Gln	Ile
			20					25					30		
Lys	Cys	Ser	Phe	His	Lys	Ser	Phe	Val	Met	Val	Phe	Trp	Ser	Glu	Met
		35					40					45			
His	Phe	His	Phe	Ser	Phe	Leu	Phe	Leu	Leu	Ser	Ile	Leu	Ser	Phe	Phe
	50					55					60				
Pro	Asn	Lys	Ile	Tyr	Pro	Gly	Asp	Tyr	Ile	Cys					
65					70					75					

<210> 2167

<211> 86

<212> PRT

<213> Homo sapiens

<400> 2167

Met	Leu	Trp	Ala	Leu	Asp	Ser	Leu	Leu	Phe	Phe	Ser	His	Ala	Gln	Leu
1				5					10					15	
Val	Pro	Leu	Gly	Gly	Gly	Glu	Glu	Trp	Gly	Ser	Pro	Gly	Leu	Gly	Leu
			20					25					30		
His	Ser	Ile	Ile	Pro	Ser	Gln	Ala	Ser	Gln	Gly	Val	Ser	Ala	Pro	Ala
		35					40					45			
Gln	Asp	Leu	Ala	Gly	Arg	Ala	Pro	Tyr	Arg	Glu	Ser	Leu	Gly	Arg	Leu
	50					55					60				
Ser	Arg	Leu	Met	Ala	Gly	Pro	Ala	Arg	Gly	Val	Leu	Arg	Pro	Ala	Leu
65					70					75					80
Arg	Thr	Cys	Pro	Leu	Phe										
				85											

<210> 2168

<211> 152

<212> PRT

<213> Homo sapiens

<400> 2168

Met	Arg	Arg	Leu	Leu	Leu	Val	Thr	Ser	Leu	Val	Val	Val	Leu	Leu	Trp
1				5					10					15	
Glu	Ala	Gly	Ala	Val	Pro	Ala	Pro	Lys	Val	Pro	Ile	Lys	Met	Gln	Val
			20					25					30		
Lys	His	Trp	Pro	Ser	Glu	Gln	Asp	Pro	Glu	Asn	Arg	Ala	Trp	Gly	Ala



<210> 2170  
 <211> 453  
 <212> PRT  
 <213> Homo sapiens

<400> 2170  
 Met Lys Leu Leu Val Ile Leu Ile Phe Ser Gly Leu Ile Thr Cys Cys  
 1 5 10 15  
 Gly Gly Asn Ser Ser His Ser Leu Pro Ser Lys Leu Leu Leu Val Ser  
 20 25 30  
 Phe Asp Gly Phe Arg Ala Asp Tyr Leu Gln Asn Tyr Glu Phe Pro His  
 35 40 45  
 Leu Gln Asn Phe Ile Lys Glu Gly Val Leu Val Glu His Val Lys Asn  
 50 55 60  
 Val Phe Ile Thr Lys Thr Phe Pro Asn His Tyr Ser Ile Val Thr Gly  
 65 70 75 80  
 Leu Tyr Glu Glu Ser His Gly Ile Val Ala Asn Ser Met Tyr Asp Val  
 85 90 95  
 Ile Thr Lys Lys His Phe Ser Asp Phe Asp Asp Lys Asp Pro Phe Trp  
 100 105 110  
 Trp Asn Glu Ala Val Pro Ile Trp Val Thr Asn Gln Leu Gln Glu Asn  
 115 120 125  
 Arg Ser Ser Ala Ala Ala Met Trp Pro Gly Thr Asp Val Pro Ile His  
 130 135 140  
 Asn Thr Thr Pro Ser Tyr Phe Met Asn Tyr Ser Ser Ser Val Ser Phe  
 145 150 155 160  
 Glu Glu Arg Leu Asn Asn Ile Thr Met Trp Leu Met Asn Ser Asn Pro  
 165 170 175  
 Pro Val Thr Phe Ala Thr Leu Tyr Trp Glu Glu Pro Asp Ala Ser Gly  
 180 185 190  
 His Lys Tyr Gly Pro Glu Asp Lys Glu Asn Met Tyr Arg Val Leu Lys  
 195 200 205  
 Glu Val Asp Asp Leu Ile Gly Glu Leu Val His Lys Leu Lys Val Leu  
 210 215 220  
 Gly Leu Trp Glu Asn Leu Asn Val Ile Ile Thr Ser Asp His Gly Met  
 225 230 235 240  
 Thr Gln Cys Ser Lys Asp Lys Leu Ile Asn Leu Asp Leu Cys Ile Asp  
 245 250 255

Arg Ser Ser Tyr Thr Leu Val Asp Leu Thr Pro Val Ala Ala Val Leu  
 260 265 270  
 Pro Lys Ile Asn Thr Thr Glu Val Tyr Asn Lys Leu Lys Val Cys Asn  
 275 280 285  
 Pro His Met Asn Val Tyr Leu Lys Glu Asp Ile Pro Ala Arg Phe His  
 290 295 300  
 Tyr Gln His Asn Asp Arg Ile Gln Pro Ile Ile Leu Val Ala Asp Glu  
 305 310 315 320  
 Gly Trp Thr Ile Val Leu Asn Lys Ser Leu Pro Lys Leu Gly Asp His  
 325 330 335  
 Gly Tyr Asp Asn Ser Leu Ser Ser Met His Pro Phe Leu Ala Ala His  
 340 345 350  
 Gly Pro Ala Phe His Lys Gly Tyr Lys His Ser Thr Ile Asn Ser Val  
 355 360 365  
 Asp Ile Tyr Pro Met Met Cys His Ile Leu Gly Leu Lys Pro His Pro  
 370 375 380  
 Asn Asn Gly Thr Phe Gly His Thr Lys Cys Leu Leu Val Asp Gln Trp  
 385 390 395 400  
 Cys Ile Asn Leu Pro Glu Ala Ile Gly Ile Val Ile Gly Ala Leu Leu  
 405 410 415  
 Val Leu Thr Thr Leu Thr Cys Leu Ile Ile Ile Met Gln Asn Arg Leu  
 420 425 430  
 Ser Val Pro Arg Pro Phe Ser Arg Leu Gln Leu Gln Glu Asp Asp Asp  
 435 440 445  
 Asp Pro Leu Ile Glu  
 450

<210> 2171  
 <211> 287  
 <212> PRT  
 <213> Homo sapiens

<400> 2171  
 Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu  
 1 5 10 15  
 Leu Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val  
 20 25 30  
 Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser  
 35 40 45  
 Cys Asn Val Thr Gly Tyr Glu Gly Pro Ala Gln Gln Asn Phe Glu Trp

50		55		60											
Phe	Leu	Tyr	Arg	Pro	Glu	Ala	Pro	Asp	Thr	Ala	Leu	Gly	Ile	Val	Ser
65					70					75					80
Thr	Lys	Asp	Thr	Gln	Phe	Ser	Tyr	Ala	Val	Phe	Lys	Ser	Arg	Val	Val
				85					90					95	
Ala	Gly	Glu	Val	Gln	Val	Gln	Arg	Leu	Gln	Gly	Asp	Ala	Val	Val	Leu
			100					105					110		
Lys	Ile	Ala	Arg	Leu	Gln	Ala	Gln	Asp	Ala	Gly	Ile	Tyr	Glu	Cys	His
		115					120					125			
Thr	Pro	Ser	Thr	Asp	Thr	Arg	Tyr	Leu	Gly	Ser	Tyr	Ser	Gly	Lys	Val
	130					135					140				
Glu	Leu	Arg	Val	Leu	Pro	Asp	Val	Leu	Gln	Val	Ser	Ala	Ala	Pro	Pro
145					150					155					160
Gly	Pro	Arg	Gly	Arg	Gln	Ala	Pro	Thr	Ser	Pro	Pro	Arg	Met	Thr	Val
				165					170					175	
His	Glu	Gly	Gln	Glu	Leu	Ala	Leu	Gly	Cys	Leu	Ala	Arg	Thr	Ser	Thr
			180					185					190		
Gln	Lys	His	Thr	His	Leu	Ala	Val	Ser	Phe	Gly	Arg	Ser	Val	Pro	Glu
		195					200					205			
Ala	Pro	Val	Gly	Arg	Ser	Thr	Leu	Gln	Glu	Val	Val	Gly	Ile	Arg	Ser
	210					215					220				
Asp	Leu	Ala	Val	Glu	Ala	Gly	Ala	Pro	Tyr	Ala	Glu	Arg	Leu	Ala	Ala
225					230					235					240
Gly	Glu	Leu	Arg	Leu	Gly	Lys	Glu	Gly	Thr	Asp	Arg	Tyr	Arg	Met	Val
				245					250					255	
Val	Gly	Gly	Ala	Gln	Ala	Gly	Asp	Ala	Gly	Thr	Tyr	His	Cys	Thr	Ala
			260					265					270		
Ala	Glu	Trp	Ile	Gln	Asp	Pro	Asp	Gly	Ser	Trp	Ala	Gln	Ile	Ala	
	275						280					285			

<210> 2172  
 <211> 613  
 <212> PRT  
 <213> Homo sapiens

<400> 2172  
 Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu  
 1 5 10 15  
 Leu Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val  
 20 25 30



Pro	Glu	Gly	Pro	Leu	Tyr	Arg	Val	Ala	Gly	Thr	Ala	Val	Ser	Ile	Ser
35						40						45			
Cys	Asn	Val	Thr	Gly	Tyr	Glu	Gly	Pro	Ala	Gln	Gln	Asn	Phe	Glu	Trp
50						55			60						
Phe	Leu	Tyr	Arg	Pro	Glu	Ala	Pro	Asp	Thr	Ala	Leu	Gly	Ile	Val	Ser
65			70						75			80			
Thr	Lys	Asp	Thr	Gln	Phe	Ser	Tyr	Ala	Val	Phe	Lys	Ser	Arg	Val	Val
			85						90			95			
Ala	Gly	Glu	Val	Gln	Val	Gln	Arg	Leu	Gln	Gly	Asp	Ala	Val	Val	Leu
			100			105						110			
Lys	Ile	Ala	Arg	Leu	Gln	Ala	Gln	Asp	Ala	Gly	Ile	Tyr	Glu	Cys	His
115						120						125			
Thr	Pro	Ser	Thr	Asp	Thr	Arg	Tyr	Leu	Gly	Ser	Tyr	Ser	Gly	Lys	Val
130						135			140						
Glu	Leu	Arg	Val	Leu	Pro	Asp	Val	Leu	Gln	Val	Ser	Ala	Ala	Pro	Pro
145			150						155			160			
Gly	Pro	Arg	Gly	Arg	Gln	Ala	Pro	Thr	Ser	Pro	Pro	Arg	Met	Thr	Val
			165						170			175			
His	Glu	Gly	Gln	Glu	Leu	Ala	Leu	Gly	Cys	Leu	Ala	Arg	Thr	Ser	Thr
			180			185						190			
Gln	Lys	His	Thr	His	Leu	Ala	Val	Ser	Phe	Gly	Arg	Ser	Val	Pro	Glu
195						200			205						
Ala	Pro	Val	Gly	Arg	Ser	Thr	Leu	Gln	Glu	Val	Val	Gly	Ile	Arg	Ser
210						215			220						
Asp	Leu	Ala	Val	Glu	Ala	Gly	Ala	Pro	Tyr	Ala	Glu	Arg	Leu	Ala	Ala
225			230						235			240			
Gly	Glu	Leu	Arg	Leu	Gly	Lys	Glu	Gly	Thr	Asp	Arg	Tyr	Arg	Met	Val
			245						250			255			
Val	Gly	Gly	Ala	Gln	Ala	Gly	Asp	Ala	Gly	Thr	Tyr	His	Cys	Thr	Ala
			260			265						270			
Ala	Glu	Trp	Ile	Gln	Asp	Pro	Asp	Gly	Ser	Trp	Ala	Gln	Ile	Ala	Glu
275						280			285						
Lys	Arg	Ala	Val	Leu	Ala	His	Val	Asp	Val	Gln	Thr	Leu	Ser	Ser	Gln
290						295			300						
Leu	Ala	Val	Thr	Val	Gly	Pro	Gly	Glu	Arg	Arg	Ile	Gly	Pro	Gly	Glu
305			310						315			320			
Pro	Leu	Glu	Leu	Leu	Cys	Asn	Val	Ser	Gly	Ala	Leu	Pro	Pro	Ala	Gly
			325						330			335			



Arg	His	Ala	Ala	Tyr	Ser	Val	Gly	Trp	Glu	Met	Ala	Pro	Ala	Gly	Ala		
340						345						350					
Pro	Gly	Pro	Gly	Arg	Leu	Val	Ala	Gln	Leu	Asp	Thr	Glu	Gly	Val	Gly		
355						360						365					
Ser	Leu	Gly	Pro	Gly	Tyr	Glu	Gly	Arg	His	Ile	Ala	Met	Glu	Lys	Val		
370						375						380					
Ala	Ser	Arg	Thr	Tyr	Arg	Leu	Arg	Leu	Glu	Ala	Ala	Arg	Pro	Gly	Asp		
385						390						395				400	
Ala	Gly	Thr	Tyr	Arg	Cys	Leu	Ala	Lys	Ala	Tyr	Val	Arg	Gly	Ser	Gly		
405						410						415					
Thr	Arg	Leu	Arg	Glu	Ala	Ala	Ser	Ala	Arg	Ser	Arg	Pro	Leu	Pro	Val		
420						425						430					
His	Val	Arg	Glu	Glu	Gly	Val	Val	Leu	Glu	Ala	Val	Ala	Trp	Leu	Ala		
435						440						445					
Gly	Gly	Thr	Val	Tyr	Arg	Gly	Glu	Thr	Ala	Ser	Leu	Leu	Cys	Asn	Ile		
450						455						460					
Ser	Val	Arg	Gly	Gly	Pro	Pro	Gly	Leu	Arg	Leu	Ala	Ala	Ser	Trp	Trp		
465						470						475				480	
Val	Glu	Arg	Pro	Glu	Asp	Gly	Glu	Leu	Ser	Ser	Val	Pro	Ala	Gln	Leu		
485						490						495					
Val	Gly	Gly	Val	Gly	Gln	Asp	Gly	Val	Ala	Glu	Leu	Gly	Val	Arg	Pro		
500						505						510					
Gly	Gly	Gly	Pro	Val	Ser	Val	Glu	Leu	Val	Gly	Pro	Arg	Ser	His	Arg		
515						520						525					
Leu	Arg	Leu	His	Ser	Leu	Gly	Pro	Glu	Asp	Glu	Gly	Val	Tyr	His	Cys		
530						535						540					
Ala	Pro	Ser	Ala	Trp	Val	Gln	His	Ala	Asp	Tyr	Ser	Trp	Tyr	Gln	Ala		
545						550						555				560	
Gly	Ser	Ala	Arg	Ser	Gly	Pro	Val	Thr	Val	Tyr	Pro	Tyr	Met	His	Ala		
565						570						575					
Leu	Asp	Thr	Leu	Phe	Val	Pro	Leu	Leu	Val	Gly	Thr	Gly	Val	Ala	Leu		
580						585						590					
Val	Thr	Gly	Ala	Thr	Val	Leu	Gly	Thr	Ile	Thr	Cys	Cys	Phe	Met	Lys		
595						600						605					
Arg	Leu	Arg	Lys	Arg													
610																	

<210> 2173  
<211> 122  
<212> PRT  
<213> Homo sapiens

<400> 2173  
Met Trp Gly Trp Gly Ser Leu Val Ser Ala Arg Gly Gly Trp Gly Val  
1 5 10 15  
Phe Ile Tyr Leu Tyr Met Gly Leu Tyr Ile Val Leu Trp Gly Met Gly  
20 25 30  
Glu Pro Ala Gly Gly Glu Asn Pro Pro Leu Ser Pro His Pro Pro Gly  
35 40 45  
Arg Ala Asn Val Lys Leu Leu Ile Phe Val Leu Tyr Ile Phe Tyr Ile  
50 55 60  
Asn Ile Ser Ile Phe Phe Leu Gln Asn Gln Phe Ile Asn Gly Arg Gly  
65 70 75 80  
Val Trp Gly Gly His Met Glu Leu Pro Leu Trp Gly Gly Pro Leu His  
85 90 95  
Tyr Pro Thr Tyr Arg Pro Phe Pro His Pro Pro Pro His Ser Pro Pro  
100 105 110  
Pro Gly Cys Asp Cys Cys Lys Met Gly Val  
115 120

<210> 2174  
<211> 613  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (507)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2174  
Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu  
1 5 10 15  
Leu Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val  
20 25 30  
Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser  
35 40 45  
Cys Asn Val Thr Gly Tyr Glu Gly Pro Ala Gln Gln Asn Phe Glu Trp  
50 55 60  
Phe Leu Tyr Arg Pro Glu Ala Pro Asp Thr Ala Leu Gly Ile Val Ser  
65 70 75 80

Thr	Lys	Asp	Thr	Gln	Phe	Ser	Tyr	Ala	Val	Phe	Lys	Ser	Arg	Val	Val	
				85					90					95		
Ala	Gly	Glu	Val	Gln	Val	Gln	Arg	Leu	Gln	Gly	Asp	Ala	Val	Val	Leu	
			100					105					110			
Lys	Ile	Ala	Arg	Leu	Gln	Ala	Gln	Asp	Ala	Gly	Ile	Tyr	Glu	Cys	His	
		115					120					125				
Thr	Pro	Ser	Thr	Asp	Thr	Arg	Tyr	Leu	Gly	Ser	Tyr	Ser	Gly	Lys	Val	
	130					135					140					
Glu	Leu	Arg	Val	Leu	Pro	Asp	Val	Leu	Gln	Val	Ser	Ala	Ala	Pro	Pro	
145					150					155					160	
Gly	Pro	Arg	Gly	Arg	Gln	Ala	Pro	Thr	Ser	Pro	Pro	Arg	Met	Thr	Val	
				165					170					175		
His	Glu	Gly	Gln	Glu	Leu	Ala	Leu	Gly	Cys	Leu	Ala	Arg	Thr	Ser	Thr	
			180					185					190			
Gln	Lys	His	Thr	His	Leu	Ala	Val	Ser	Phe	Gly	Arg	Ser	Val	Pro	Glu	
		195					200					205				
Ala	Pro	Val	Gly	Arg	Ser	Thr	Leu	Gln	Glu	Val	Val	Gly	Ile	Arg	Ser	
	210					215					220					
Asp	Leu	Ala	Val	Glu	Ala	Gly	Ala	Pro	Tyr	Ala	Glu	Arg	Leu	Ala	Ala	
225					230					235					240	
Gly	Glu	Leu	Arg	Leu	Gly	Lys	Glu	Gly	Thr	Asp	Arg	Tyr	Arg	Met	Val	
				245					250					255		
Val	Gly	Gly	Ala	Gln	Ala	Gly	Asp	Ala	Gly	Thr	Tyr	His	Cys	Thr	Ala	
			260					265					270			
Ala	Glu	Trp	Ile	Gln	Asp	Pro	Asp	Gly	Ser	Trp	Ala	Gln	Ile	Ala	Glu	
		275					280					285				
Lys	Arg	Ala	Val	Leu	Ala	His	Val	Asp	Val	Gln	Thr	Leu	Ser	Ser	Gln	
	290					295					300					
Leu	Ala	Val	Thr	Val	Gly	Pro	Gly	Glu	Arg	Arg	Ile	Gly	Pro	Gly	Glu	
305					310				315						320	
Pro	Leu	Glu	Leu	Leu	Cys	Asn	Val	Ser	Gly	Ala	Leu	Pro	Pro	Ala	Gly	
				325					330					335		
Arg	His	Ala	Ala	Tyr	Ser	Val	Gly	Trp	Glu	Met	Ala	Pro	Ala	Gly	Ala	
			340					345					350			
Pro	Gly	Pro	Gly	Arg	Leu	Val	Ala	Gln	Leu	Asp	Thr	Glu	Gly	Val	Gly	
		355					360					365				
Ser	Leu	Gly	Pro	Gly	Tyr	Glu	Gly	Arg	His	Ile	Ala	Met	Glu	Lys	Val	
	370					375					380					

Ala Ser Arg Thr Tyr Arg Leu Arg Leu Glu Ala Ala Arg Pro Gly Asp  
 385 390 395 400  
 Ala Gly Thr Tyr Arg Cys Leu Ala Lys Ala Tyr Val Arg Gly Ser Gly  
 405 410 415  
 Thr Arg Leu Arg Glu Ala Ala Ser Ala Arg Ser Arg Pro Leu Pro Val  
 420 425 430  
 His Val Arg Glu Glu Gly Val Val Leu Glu Ala Val Ala Trp Leu Ala  
 435 440 445  
 Gly Gly Thr Val Tyr Arg Gly Glu Thr Ala Ser Leu Leu Cys Asn Ile  
 450 455 460  
 Ser Val Arg Gly Gly Pro Pro Gly Leu Arg Leu Ala Ala Ser Trp Trp  
 465 470 475 480  
 Val Glu Arg Pro Glu Asp Gly Glu Leu Ser Ser Val Pro Ala Gln Leu  
 485 490 495  
 Val Gly Gly Val Gly Gln Asp Gly Val Ala Xaa Leu Gly Val Arg Pro  
 500 505 510  
 Gly Gly Gly Pro Val Ser Val Glu Leu Val Gly Pro Arg Ser His Arg  
 515 520 525  
 Leu Arg Leu His Ser Leu Gly Pro Glu Asp Glu Gly Val Tyr His Cys  
 530 535 540  
 Ala Pro Ser Ala Trp Val Gln His Ala Asp Tyr Ser Trp Tyr Gln Ala  
 545 550 555 560  
 Gly Ser Ala Arg Ser Gly Pro Val Thr Val Tyr Pro Tyr Met His Ala  
 565 570 575  
 Leu Asp Thr Leu Phe Val Pro Leu Leu Val Gly Thr Gly Val Ala Leu  
 580 585 590  
 Val Thr Gly Ala Thr Val Leu Gly Thr Ile Thr Cys Cys Phe Met Lys  
 595 600 605  
 Arg Leu Arg Lys Arg  
 610

<210> 2175  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 2175  
 Met Ala Trp Ala Val Thr Leu Ile Leu Ser Leu Ser Arg Ala Val Arg  
 1 5 10 15

Thr Gln Glu Val Pro Met Ala Leu Gln Ala His Ser Gly Ile Gln Leu  
20 25 30

Ala Ser Arg Val Gly Leu Pro Gly Pro Trp Pro Glu Cys Ser Thr Leu  
35 40 45

Ser Ser Arg Cys His Leu Ser Met Asp Ser Lys Val  
50 55 60

<210> 2176  
<211> 396  
<212> PRT  
<213> Homo sapiens

<400> 2176  
Met Trp Trp Leu Leu Leu Trp Gly Val Leu Gln Ala Cys Pro Thr Arg  
1 5 10 15

Gly Ser Val Leu Leu Ala Gln Glu Leu Pro Gln Gln Leu Thr Ser Pro  
20 25 30

Gly Tyr Pro Glu Pro Tyr Gly Lys Gly Gln Glu Ser Ser Thr Asp Ile  
35 40 45

Lys Ala Pro Glu Gly Phe Ala Val Arg Leu Val Phe Gln Asp Phe Asp  
50 55 60

Leu Glu Pro Ser Gln Asp Cys Ala Gly Asp Ser Val Thr Ile Ser Phe  
65 70 75 80

Val Gly Ser Asp Pro Ser Gln Phe Cys Gly Gln Gln Gly Ser Pro Leu  
85 90 95

Gly Arg Pro Pro Gly Gln Arg Glu Phe Val Ser Ser Gly Arg Ser Leu  
100 105 110

Arg Leu Thr Phe Arg Thr Gln Pro Ser Ser Glu Asn Lys Thr Ala His  
115 120 125

Leu His Lys Gly Phe Leu Ala Leu Tyr Gln Thr Val Ala Val Asn Tyr  
130 135 140

Ser Gln Pro Ile Ser Glu Ala Ser Arg Gly Ser Glu Ala Ile Asn Ala  
145 150 155 160

Pro Gly Asp Asn Pro Ala Lys Val Gln Asn His Cys Gln Glu Pro Tyr  
165 170 175

Tyr Gln Ala Ala Ala Ala Gly Ala Leu Thr Cys Ala Thr Pro Gly Thr  
180 185 190

Trp Lys Asp Arg Gln Asp Gly Glu Glu Val Leu Gln Cys Met Pro Val  
195 200 205

Cys Gly Arg Pro Val Thr Pro Ile Ala Gln Asn Gln Thr Thr Leu Gly

210		215		220
Ser Ser Arg Ala Lys Leu Gly Asn Phe Pro Trp Gln Ala Phe Thr Ser				
225		230		235 240
Ile His Gly Arg Gly Gly Gly Ala Leu Leu Gly Asp Arg Trp Ile Leu				
		245		250 255
Thr Ala Ala His Thr Ile Tyr Pro Lys Asp Ser Val Ser Leu Arg Lys				
		260		265 270
Asn Gln Ser Val Asn Val Phe Leu Gly His Thr Ala Ile Asp Glu Met				
		275		280 285
Leu Lys Leu Gly Asn His Pro Val His Arg Val Val Val His Pro Asp				
		290		295 300
Tyr Arg Gln Asn Glu Ser His Asn Phe Ser Gly Asp Ile Ala Leu Leu				
305		310		315 320
Glu Leu Gln His Ser Ile Pro Leu Gly Pro Asn Val Leu Pro Val Cys				
		325		330 335
Leu Pro Asp Asn Glu Thr Leu Tyr Arg Ser Gly Leu Leu Gly Tyr Val				
		340		345 350
Ser Gly Phe Gly Met Glu Met Gly Trp Leu Thr Thr Glu Leu Lys Tyr				
		355		360 365
Ser Arg Leu Pro Val Ala Pro Arg Glu Ala Cys Asn Ala Trp Leu Gln				
		370		375 380
Lys Arg Gln Arg Pro Glu Lys Lys Lys Lys Lys Lys				
385		390		395

<210> 2177  
 <211> 172  
 <212> PRT  
 <213> Homo sapiens

<400> 2177
Gly Thr Arg Thr Glu Arg Asp Glu Leu Leu Lys Asp Leu Gln Gln Ser
1 5 10 15
Ile Ala Arg Glu Pro Ser Ala Pro Ser Ile Pro Thr Pro Ala Tyr Gln
20 25 30
Ser Leu Pro Ala Gly Gly His Ala Pro Thr Pro Pro Thr Pro Ala Pro
35 40 45
Arg Thr Met Pro Pro Thr Lys Pro Gln Pro Pro Ala Arg Pro Pro Pro
50 55 60
Pro Val Leu Pro Ala Asn Arg Ala Pro Ser Ala Thr Ala Pro Ser Pro
65 70 75 80

Val	Gly	Ala	Gly	Thr	Ala	Ala	Pro	Ala	Pro	Ser	Gln	Thr	Pro	Gly	Ser
				85					90					95	
Ala	Pro	Pro	Pro	Gln	Ala	Gln	Gly	Pro	Pro	Tyr	Pro	Thr	Tyr	Pro	Gly
			100					105					110		
Tyr	Pro	Gly	Tyr	Cys	Gln	Met	Pro	Met	Pro	Met	Gly	Tyr	Asn	Pro	Tyr
		115						120				125			
Ala	Tyr	Gly	Gln	Tyr	Asn	Met	Pro	Tyr	Pro	Pro	Val	Tyr	His	Gln	Ser
	130					135					140				
Pro	Gly	Gln	Ala	Pro	Tyr	Pro	Gly	Pro	Gln	Gln	Pro	Ser	Tyr	Pro	Phe
145					150					155					160
Pro	Gln	Pro	Pro	Gln	Gln	Ser	Tyr	Tyr	Pro	Gln	Gln				
				165					170						

<210> 2178  
 <211> 142  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring L-amino acids

Met	His	Gln	Leu	Leu	Gln	Leu	Gln	Arg	Gln	Glu	Pro	Cys	Arg	Leu	Leu
1				5					10					15	
Ser	Pro	Ser	Pro	Gln	Pro	Gly	Leu	His	His	Leu	Cys	Phe	Gln	Gln	Ile
			20					25					30		
Glu	Leu	Leu	Leu	Leu	Leu	Leu	His	Leu	Gln	Trp	Gly	Leu	Gly	Leu	Leu
		35					40					45			
Arg	Gln	Leu	His	His	Lys	Arg	Leu	Ala	Gln	Leu	Leu	Leu	His	Arg	Arg
	50					55					60				
Arg	Asp	His	Pro	Ile	Pro	Pro	Ile	Gln	Asp	Ile	Leu	Gly	Ile	Ala	Lys
65				70						75					80
Cys	Pro	Cys	Pro	Trp	Ala	Ile	Ile	Leu	Met	Arg	Met	Ala	Ser	Ile	Ile
				85					90					95	
Cys	His	Ile	His	Gln	Cys	Ile	Thr	Arg	Val	Leu	Asp	Arg	Leu	Xaa	Thr
			100					105					110		
Arg	Asp	Pro	Ser	Ser	Leu	His	Thr	Pro	Ser	Leu	Ser	Pro	His	Ser	Ser
		115					120					125			
Leu	Thr	Ile	His	Ser	Ser	Asn	Met	Ser	Ala	Gln	Gln	Leu	Ser		



130

135

140

&lt;210&gt; 2179

&lt;211&gt; 868

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (194)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (309)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (550)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 2179

Met	Ala	Thr	Phe	Ile	Ser	Val	Gln	Leu	Lys	Lys	Thr	Ser	Glu	Val	Asp
1				5					10					15	

Leu	Ala	Lys	Pro	Leu	Val	Lys	Phe	Ile	Gln	Gln	Thr	Tyr	Pro	Ser	Gly
			20					25					30		

Gly	Glu	Glu	Gln	Ala	Gln	Tyr	Cys	Arg	Ala	Ala	Glu	Glu	Leu	Ser	Lys
		35					40					45			

Leu	Arg	Arg	Ala	Ala	Val	Gly	Arg	Pro	Leu	Asp	Lys	His	Glu	Gly	Ala
	50					55					60				

Leu	Glu	Thr	Leu	Leu	Arg	Tyr	Tyr	Asp	Gln	Ile	Cys	Ser	Ile	Glu	Pro
65					70					75					80

Lys	Phe	Pro	Phe	Ser	Glu	Asn	Gln	Ile	Cys	Leu	Thr	Phe	Thr	Trp	Lys
				85					90					95	

Asp	Ala	Phe	Asp	Lys	Gly	Ser	Leu	Phe	Gly	Gly	Ser	Val	Lys	Leu	Ala
			100					105					110		

Leu	Ala	Ser	Leu	Gly	Tyr	Glu	Lys	Ser	Cys	Val	Leu	Phe	Asn	Cys	Ala
		115					120					125			

Ala	Leu	Ala	Ser	Gln	Ile	Ala	Ala	Glu	Gln	Asn	Leu	Asp	Asn	Asp	Glu
	130					135					140				

Gly	Leu	Lys	Ile	Ala	Ala	Lys	His	Tyr	Gln	Phe	Ala	Ser	Gly	Ala	Phe
145					150					155					160

Leu	His	Ile	Lys	Glu	Thr	Val	Leu	Ser	Ala	Leu	Ser	Arg	Glu	Pro	Thr
				165					170					175	



Val	Asp	Ile	Ser	Pro	Asp	Thr	Val	Gly	Thr	Leu	Ser	Leu	Ile	Met	Leu
			180					185					190		
Ala	Xaa	Ala	Gln	Glu	Val	Phe	Phe	Leu	Lys	Ala	Thr	Arg	Asp	Lys	Met
		195					200					205			
Lys	Asp	Ala	Ile	Ile	Ala	Lys	Leu	Ala	Asn	Gln	Ala	Ala	Asp	Tyr	Phe
	210					215					220				
Gly	Asp	Ala	Phe	Lys	Gln	Cys	Gln	Tyr	Lys	Asp	Thr	Leu	Pro	Lys	Glu
225					230					235					240
Val	Phe	Pro	Val	Leu	Ala	Ala	Lys	His	Cys	Ile	Met	Gln	Ala	Asn	Ala
				245					250					255	
Glu	Tyr	His	Gln	Ser	Ile	Leu	Ala	Lys	Gln	Gln	Lys	Lys	Phe	Gly	Glu
			260					265					270		
Glu	Ile	Ala	Arg	Leu	Gln	His	Ala	Ala	Glu	Leu	Ile	Lys	Thr	Val	Ala
		275					280					285			
Ser	Arg	Tyr	Asp	Glu	Tyr	Val	Asn	Val	Lys	Asp	Phe	Ser	Asp	Lys	Ile
	290					295					300				
Asn	Arg	Ala	Leu	Xaa	Ala	Ala	Lys	Lys	Asp	Asn	Asp	Phe	Ile	Tyr	His
305					310					315					320
Asp	Arg	Val	Pro	Asp	Leu	Lys	Asp	Leu	Asp	Pro	Ile	Gly	Lys	Ala	Thr
				325					330					335	
Leu	Val	Lys	Ser	Thr	Pro	Val	Asn	Val	Pro	Ile	Ser	Gln	Lys	Phe	Thr
			340					345					350		
Asp	Leu	Phe	Glu	Lys	Met	Val	Pro	Val	Ser	Val	Gln	Gln	Ser	Leu	Ala
		355					360					365			
Ala	Tyr	Asn	Gln	Arg	Lys	Ala	Asp	Leu	Val	Asn	Arg	Ser	Ile	Ala	Gln
	370					375					380				
Met	Arg	Glu	Ala	Thr	Thr	Leu	Ala	Asn	Gly	Val	Leu	Ala	Ser	Leu	Asn
385					390					395					400
Leu	Pro	Ala	Ala	Ile	Glu	Asp	Val	Ser	Gly	Asp	Thr	Val	Pro	Gln	Ser
				405					410					415	
Ile	Leu	Thr	Lys	Ser	Arg	Ser	Val	Ile	Glu	Gln	Gly	Gly	Ile	Gln	Thr
			420					425					430		
Val	Asp	Gln	Leu	Ile	Lys	Glu	Leu	Pro	Glu	Leu	Leu	Gln	Arg	Asn	Arg
		435					440					445			
Glu	Ile	Leu	Asp	Glu	Ser	Leu	Arg	Leu	Leu	Asp	Glu	Glu	Glu	Ala	Thr
	450					455					460				
Asp	Asn	Asp	Leu	Arg	Ala	Lys	Phe	Lys	Glu	Arg	Trp	Gln	Arg	Thr	Pro
465					470					475					480

Ser	Asn	Glu	Leu	Tyr	Lys	Pro	Leu	Arg	Ala	Glu	Gly	Thr	Asn	Phe	Arg	
				485					490					495		
Thr	Val	Leu	Asp	Lys	Ala	Val	Gln	Ala	Asp	Gly	Gln	Val	Lys	Glu	Cys	
			500					505					510			
Tyr	Gln	Ser	His	Arg	Asp	Thr	Ile	Val	Leu	Leu	Cys	Lys	Pro	Glu	Pro	
		515					520					525				
Glu	Leu	Asn	Ala	Ala	Ile	Pro	Ser	Ala	Asn	Pro	Ala	Lys	Thr	Met	Gln	
	530					535					540					
Gly	Ser	Glu	Val	Val	Xaa	Val	Leu	Lys	Ser	Leu	Leu	Ser	Asn	Leu	Asp	
545					550					555					560	
Glu	Val	Lys	Lys	Glu	Arg	Glu	Gly	Leu	Glu	Asn	Asp	Leu	Lys	Ser	Val	
				565					570					575		
Asn	Phe	Asp	Met	Thr	Ser	Lys	Phe	Leu	Thr	Ala	Leu	Ala	Gln	Asp	Gly	
			580					585					590			
Val	Ile	Asn	Glu	Glu	Ala	Leu	Ser	Val	Thr	Glu	Leu	Asp	Arg	Val	Tyr	
		595					600					605				
Gly	Gly	Leu	Thr	Thr	Lys	Val	Gln	Glu	Ser	Leu	Lys	Lys	Gln	Glu	Gly	
	610					615					620					
Leu	Leu	Lys	Asn	Ile	Gln	Val	Ser	His	Gln	Glu	Phe	Ser	Lys	Met	Lys	
625					630					635					640	
Gln	Ser	Asn	Asn	Glu	Ala	Asn	Leu	Arg	Glu	Glu	Val	Leu	Lys	Asn	Leu	
				645					650					655		
Ala	Thr	Ala	Tyr	Asp	Asn	Phe	Val	Glu	Leu	Val	Ala	Asn	Leu	Lys	Glu	
			660					665					670			
Gly	Thr	Lys	Phe	Tyr	Asn	Glu	Leu	Thr	Glu	Ile	Leu	Val	Arg	Phe	Gln	
		675					680					685				
Asn	Lys	Cys	Ser	Asp	Ile	Val	Phe	Ala	Arg	Lys	Thr	Glu	Arg	Asp	Glu	
	690					695					700					
Leu	Leu	Lys	Asp	Leu	Gln	Gln	Ser	Ile	Ala	Arg	Glu	Pro	Ser	Ala	Pro	
705					710					715					720	
Ser	Ile	Pro	Thr	Pro	Ala	Tyr	Gln	Ser	Leu	Pro	Ala	Gly	Gly	His	Ala	
				725					730					735		
Pro	Thr	Pro	Pro	Thr	Pro	Ala	Pro	Arg	Thr	Met	Pro	Pro	Thr	Lys	Pro	
				740				745					750			
Gln	Pro	Pro	Ala	Arg	Pro	Pro	Pro	Pro	Val	Leu	Pro	Ala	Asn	Arg	Ala	
		755					760					765				
Pro	Ser	Ala	Thr	Ala	Pro	Ser	Pro	Val	Gly	Ala	Gly	Thr	Ala	Ala	Pro	
	770					775					780					

Ala Pro Ser Gln Thr Pro Gly Ser Ala Pro Pro Pro Gln Ala Gln Gly  
785 790 795 800

Pro Pro Tyr Pro Thr Tyr Pro Gly Tyr Pro Gly Tyr Cys Gln Met Pro  
805 810 815

Met Pro Met Gly Tyr Asn Pro Tyr Ala Tyr Gly Gln Tyr Asn Met Pro  
820 825 830

Tyr Pro Pro Val Tyr His Gln Ser Pro Gly Gln Ala Pro Tyr Pro Gly  
835 840 845

Pro Gln Gln Pro Ser Tyr Pro Phe Pro Gln Pro Pro Gln Gln Ser Tyr  
850 855 860

Tyr Pro Gln Gln  
865

<210> 2180  
<211> 102  
<212> PRT  
<213> Homo sapiens

<400> 2180  
Met Lys Pro Ala Thr Ala Ser Ala Leu Leu Leu Leu Leu Gly Leu  
1 5 10 15

Ala Trp Thr Gln Gly Ser His Gly Trp Gly Ala Asp Ala Ser Ser Leu  
20 25 30

Gln Lys Arg Ala Gly Arg Ala Asp Gln Pro Gly Ala Gly Trp Gln Glu  
35 40 45

Val Ala Ala Val Thr Ser Lys Asn Tyr Asn Tyr Asn Gln His Ala Tyr  
50 55 60

Pro Thr Ala Tyr Gly Gly Lys Tyr Ser Val Lys Thr Pro Ala Lys Gly  
65 70 75 80

Gly Val Ser Pro Ser Ser Ser Ala Ser Arg Val Gln Pro Gly Leu Leu  
85 90 95

Gln Trp Val Lys Phe Trp  
100

<210> 2181  
<211> 140  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2181

Met	Phe	Leu	Phe	Gly	Gly	Phe	Leu	Met	Thr	Leu	Phe	Gly	Leu	Phe	Val
1				5					10					15	
Ser	Leu	Val	Phe	Leu	Gly	Gln	Ala	Phe	Thr	Ile	Met	Leu	Val	Tyr	Val
			20					25					30		
Trp	Ser	Arg	Xaa	Asn	Pro	Tyr	Val	Arg	Met	Asn	Phe	Phe	Gly	Leu	Leu
		35					40					45			
Asn	Phe	Gln	Ala	Pro	Phe	Leu	Pro	Trp	Val	Leu	Met	Gly	Phe	Ser	Leu
	50					55					60				
Leu	Leu	Gly	Asn	Ser	Ile	Ile	Val	Asp	Leu	Leu	Gly	Ile	Ala	Val	Gly
65					70					75					80
His	Ile	Tyr	Phe	Phe	Leu	Glu	Asp	Val	Phe	Pro	Asn	Gln	Pro	Gly	Gly
			85						90					95	
Ile	Arg	Ile	Leu	Lys	Thr	Pro	Ser	Ile	Leu	Lys	Ala	Ile	Phe	Asp	Thr
			100					105					110		
Pro	Asp	Glu	Asp	Pro	Asn	Tyr	Asn	Pro	Leu	Pro	Glu	Glu	Arg	Pro	Gly
		115					120					125			
Gly	Phe	Ala	Trp	Gly	Glu	Gly	Gln	Arg	Leu	Gly	Gly				
	130					135					140				

<210> 2182

<211> 156

<212> PRT

<213> Homo sapiens

<400> 2182

Met	Leu	Glu	Glu	Gly	Ser	Phe	Arg	Gly	Arg	Thr	Ala	Asp	Phe	Val	Phe
1				5					10					15	
Met	Phe	Leu	Phe	Gly	Gly	Phe	Leu	Met	Thr	Leu	Phe	Gly	Leu	Phe	Val
			20					25					30		
Ser	Leu	Val	Phe	Leu	Gly	Gln	Ala	Phe	Thr	Ile	Met	Leu	Val	Tyr	Val
		35					40					45			
Trp	Ser	Arg	Arg	Asn	Pro	Tyr	Val	Arg	Met	Asn	Phe	Phe	Gly	Leu	Leu
	50					55					60				
Asn	Phe	Gln	Ala	Pro	Phe	Leu	Pro	Trp	Val	Leu	Met	Gly	Phe	Ser	Leu
65					70					75					80
Leu	Leu	Gly	Asn	Ser	Ile	Ile	Val	Asp	Leu	Leu	Gly	Ile	Ala	Val	Gly
			85						90					95	

His	Ile	Tyr	Phe	Phe	Leu	Glu	Asp	Val	Phe	Pro	Asn	Gln	Pro	Gly	Gly
			100					105					110		
Ile	Arg	Ile	Leu	Lys	Thr	Pro	Ser	Ile	Leu	Lys	Ala	Ile	Phe	Asp	Thr
		115					120					125			
Pro	Asp	Glu	Asp	Pro	Asn	Tyr	Asn	Pro	Leu	Pro	Glu	Glu	Arg	Pro	Gly
	130					135					140				
Gly	Phe	Ala	Trp	Gly	Glu	Gly	Gln	Arg	Leu	Gly	Gly				
145					150					155					

<210> 2183  
 <211> 239  
 <212> PRT  
 <213> Homo sapiens

<400> 2183															
Met	Ala	Tyr	Gln	Ser	Leu	Arg	Leu	Glu	Tyr	Leu	Gln	Ile	Pro	Pro	Val
1				5					10					15	
Ser	Arg	Ala	Tyr	Thr	Thr	Ala	Cys	Val	Leu	Thr	Thr	Ala	Ala	Val	Gln
			20					25					30		
Leu	Glu	Leu	Ile	Thr	Pro	Phe	Gln	Leu	Tyr	Phe	Asn	Pro	Glu	Leu	Ile
		35					40					45			
Phe	Lys	His	Phe	Gln	Ile	Trp	Arg	Leu	Ile	Thr	Asn	Phe	Leu	Phe	Phe
	50					55					60				
Gly	Pro	Val	Gly	Phe	Asn	Phe	Leu	Phe	Asn	Met	Ile	Phe	Leu	Tyr	Arg
65					70				75					80	
Tyr	Cys	Arg	Met	Leu	Glu	Glu	Gly	Ser	Phe	Arg	Gly	Arg	Thr	Ala	Asp
				85					90					95	
Phe	Val	Phe	Met	Phe	Leu	Phe	Gly	Gly	Phe	Leu	Met	Thr	Leu	Phe	Gly
			100					105					110		
Leu	Phe	Val	Ser	Leu	Val	Phe	Leu	Gly	Gln	Ala	Phe	Thr	Ile	Met	Leu
		115					120					125			
Val	Tyr	Val	Trp	Ser	Arg	Arg	Asn	Pro	Tyr	Val	Arg	Met	Asn	Phe	Phe
	130					135					140				
Gly	Leu	Leu	Asn	Phe	Gln	Ala	Pro	Phe	Leu	Pro	Trp	Val	Leu	Met	Gly
145					150					155				160	
Phe	Ser	Leu	Leu	Leu	Gly	Asn	Ser	Ile	Ile	Val	Asp	Leu	Leu	Gly	Ile
				165					170					175	
Ala	Val	Gly	His	Ile	Tyr	Phe	Phe	Leu	Glu	Asp	Val	Phe	Pro	Asn	Gln
			180					185					190		
Pro	Gly	Gly	Ile	Arg	Ile	Leu	Lys	Thr	Pro	Ser	Ile	Leu	Lys	Ala	Ile

195		200		205											
Phe	Asp	Thr	Pro	Asp	Glu	Asp	Pro	Asn	Tyr	Asn	Pro	Leu	Pro	Glu	Glu
210						215					220				
Arg	Pro	Gly	Gly	Phe	Ala	Trp	Gly	Glu	Gly	Gln	Arg	Leu	Gly	Gly	
225					230					235					

<210> 2184  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 2184

Met	Thr	Leu	Phe	Gly	Leu	Phe	Val	Ser	Leu	Val	Phe	Leu	Gly	Gln	Ala
1				5					10					15	
Phe	Thr	Ile	Met	Leu	Val	Tyr	Val	Trp	Ser	Arg	Arg	Asn	Pro	Tyr	Val
			20					25					30		
Arg	Met	Asn	Phe	Phe	Gly	Leu	Leu	Asn	Phe	Gln	Ala	Pro	Phe	Leu	Pro
		35					40					45			
Trp	Val	Leu	Met	Gly	Phe	Ser	Leu	Leu	Leu	Gly	Asn	Ser	Ile	Ile	Val
	50					55					60				
Asp	Leu	Leu	Gly	Ile	Ala	Val	Gly	His	Ile	Tyr	Phe	Phe	Leu	Glu	Asp
65					70					75					80
Val	Phe	Pro	Asn	Gln	Pro	Gly	Gly	Ile	Arg	Ile	Leu	Lys	Thr	Pro	Ser
				85					90					95	
Ile	Leu	Lys	Ala	Ile	Phe	Asp	Thr	Pro	Asp	Glu	Asp	Pro	Asn	Tyr	Asn
			100					105					110		
Pro	Leu	Pro	Glu	Glu	Arg	Pro	Gly	Gly	Phe	Ala	Trp	Gly	Glu	Gly	Gln
		115					120					125			
Arg	Leu	Gly	Gly												
			130												

<210> 2185  
 <211> 339  
 <212> PRT  
 <213> Homo sapiens

<400> 2185

Met	Ser	Trp	Ser	Thr	Phe	Leu	Leu	Ala	Glu	Ala	Cys	Gly	Phe	Thr	Gly
1				5					10					15	
Val	Val	Ala	Val	Leu	Phe	Cys	Gly	Ile	Thr	Gln	Ala	His	Tyr	Thr	Tyr
			20					25					30		

Asn	Asn	Leu	Ser	Val	Glu	Ser	Arg	Ser	Arg	Thr	Lys	Gln	Leu	Phe	Glu
		35					40					45			
Val	Leu	His	Phe	Leu	Ala	Glu	Asn	Phe	Ile	Phe	Ser	Tyr	Met	Gly	Leu
	50					55					60				
Ala	Leu	Phe	Thr	Phe	Gln	Lys	His	Val	Phe	Ser	Pro	Ile	Phe	Ile	Ile
65					70					75					80
Gly	Ala	Phe	Val	Ala	Ile	Phe	Leu	Gly	Arg	Ala	Ala	His	Ile	Tyr	Pro
				85					90					95	
Leu	Ser	Phe	Phe	Leu	Asn	Leu	Gly	Arg	Arg	His	Lys	Ile	Gly	Trp	Asn
			100					105					110		
Phe	Gln	His	Met	Met	Met	Phe	Ser	Gly	Leu	Arg	Gly	Ala	Met	Ala	Phe
		115					120					125			
Ala	Leu	Ala	Ile	Arg	Asp	Thr	Ala	Ser	Tyr	Ala	Arg	Gln	Met	Met	Phe
	130					135					140				
Thr	Thr	Thr	Leu	Leu	Ile	Val	Phe	Phe	Thr	Val	Trp	Ile	Ile	Gly	Gly
145					150					155					160
Gly	Thr	Thr	Pro	Met	Leu	Ser	Trp	Leu	Asn	Ile	Arg	Val	Gly	Val	Asp
				165					170					175	
Pro	Asp	Gln	Asp	Pro	Pro	Pro	Asn	Asn	Asp	Ser	Phe	Gln	Val	Leu	Gln
			180					185					190		
Gly	Asp	Gly	Pro	Asp	Ser	Ala	Arg	Gly	Asn	Arg	Thr	Lys	Gln	Glu	Ser
		195					200					205			
Ala	Trp	Ile	Phe	Arg	Leu	Trp	Tyr	Ser	Phe	Asp	His	Asn	Tyr	Leu	Lys
	210					215					220				
Pro	Ile	Leu	Thr	His	Ser	Gly	Pro	Pro	Leu	Thr	Thr	Thr	Leu	Pro	Ala
225					230					235					240
Trp	Cys	Gly	Leu	Leu	Ala	Arg	Cys	Leu	Thr	Ser	Pro	Gln	Val	Tyr	Asp
				245					250					255	
Asn	Gln	Glu	Pro	Leu	Arg	Glu	Glu	Asp	Ser	Asp	Phe	Ile	Leu	Thr	Glu
			260					265					270		
Gly	Asp	Leu	Thr	Leu	Thr	Tyr	Gly	Asp	Ser	Thr	Val	Thr	Ala	Asn	Gly
		275					280					285			
Ser	Ser	Ser	Ser	His	Thr	Ala	Ser	Thr	Ser	Leu	Glu	Gly	Ser	Arg	Arg
	290					295					300				
Thr	Lys	Ser	Ser	Ser	Glu	Glu	Val	Leu	Glu	Arg	Asp	Leu	Gly	Met	Gly
305					310					315					320
Asp	Gln	Lys	Val	Ser	Ser	Arg	Gly	Thr	Arg	Leu	Val	Phe	Pro	Leu	Glu
				325					330					335	



Asp Asn Ala

<210> 2186  
<211> 339  
<212> PRT  
<213> Homo sapiens

<400> 2186  
Met Ser Trp Ser Thr Phe Leu Leu Ala Glu Ala Cys Gly Phe Thr Gly  
1 5 10 15  
Val Val Ala Val Leu Phe Cys Gly Ile Thr Gln Ala His Tyr Thr Tyr  
20 25 30  
Asn Asn Leu Ser Val Glu Ser Arg Ser Arg Thr Lys Gln Leu Phe Glu  
35 40 45  
Val Leu His Phe Leu Ala Glu Asn Phe Ile Phe Ser Tyr Met Gly Leu  
50 55 60  
Ala Leu Phe Thr Phe Gln Lys His Val Phe Ser Pro Ile Phe Ile Ile  
65 70 75 80  
Gly Ala Phe Val Ala Ile Phe Leu Gly Arg Ala Ala His Ile Tyr Pro  
85 90 95  
Leu Ser Phe Phe Leu Asn Leu Gly Arg Arg His Lys Ile Gly Trp Asn  
100 105 110  
Phe Gln His Met Met Met Phe Ser Gly Leu Arg Gly Ala Met Ala Phe  
115 120 125  
Ala Leu Ala Ile Arg Asp Thr Ala Ser Tyr Ala Arg Gln Met Met Phe  
130 135 140  
Thr Thr Thr Leu Leu Ile Val Phe Phe Thr Val Trp Ile Ile Gly Gly  
145 150 155 160  
Gly Thr Thr Pro Met Leu Ser Trp Leu Asn Ile Arg Val Gly Val Asp  
165 170 175  
Pro Asp Gln Asp Pro Pro Pro Asn Asn Asp Ser Phe Gln Val Leu Gln  
180 185 190  
Gly Asp Gly Pro Asp Ser Ala Arg Gly Asn Arg Thr Lys Gln Glu Ser  
195 200 205  
Ala Trp Ile Phe Arg Leu Trp Tyr Ser Phe Asp His Asn Tyr Leu Lys  
210 215 220  
Pro Ile Leu Thr His Ser Gly Pro Pro Leu Thr Thr Thr Leu Pro Ala  
225 230 235 240  
Trp Cys Gly Leu Leu Ala Arg Cys Leu Thr Ser Pro Gln Val Tyr Asp



	245		250		255										
Asn	Gln	Glu	Pro	Leu	Arg	Glu	Glu	Asp	Ser	Asp	Phe	Ile	Leu	Thr	Glu
			260					265					270		
Gly	Asp	Leu	Thr	Leu	Thr	Tyr	Gly	Asp	Ser	Thr	Val	Thr	Ala	Asn	Gly
		275					280					285			
Ser	Ser	Ser	Ser	His	Thr	Ala	Ser	Thr	Ser	Leu	Glu	Gly	Ser	Arg	Arg
		290				295					300				
Thr	Lys	Ser	Ser	Ser	Glu	Glu	Val	Leu	Glu	Arg	Asp	Leu	Gly	Met	Gly
305					310					315					320
Asp	Gln	Lys	Val	Ser	Ser	Arg	Gly	Thr	Arg	Leu	Val	Phe	Pro	Leu	Glu
				325					330					335	

Asp Asn Ala

<210> 2187  
 <211> 509  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (20)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (168)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (198)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (199)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (244)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (246)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (294)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (301)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (303)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (493)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (498)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (499)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (505)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2187  
 Met Glu Glu Leu Ala Thr Glu Lys Glu Ala Glu Glu Ser His Arg Gln  
   1                  5                  10                  15  
 Asp Ser Val Xaa Leu Leu Thr Phe Ile Leu Leu Leu Thr Leu Thr Ile  
                   20                  25                  30  
 Leu Thr Ile Trp Leu Phe Lys His Arg Arg Val Arg Phe Leu His Glu  
           35                  40                  45  
 Thr Gly Leu Ala Met Ile Tyr Gly Leu Ile Val Gly Val Ile Leu Arg  
   50                  55                  60  
 Tyr Gly Thr Pro Ala Thr Ser Gly Arg Asp Lys Ser Leu Ser Cys Thr  
   65                  70                  75                  80  
 Gln Glu Asp Arg Ala Phe Ser Thr Leu Leu Val Asn Val Ser Gly Lys  
                   85                  90                  95  
 Phe Phe Glu Tyr Thr Leu Lys Gly Glu Ile Ser Pro Gly Lys Ile Asn  
           100                  105                  110

Ser	Val	Glu	Gln	Asn	Asp	Met	Leu	Arg	Lys	Val	Thr	Phe	Asp	Pro	Glu	115	120	125	
Val	Phe	Phe	Asn	Ile	Leu	Leu	Pro	Pro	Ile	Ile	Phe	His	Ala	Gly	Tyr	130	135	140	
Ser	Leu	Lys	Lys	Arg	His	Phe	Phe	Arg	Asn	Leu	Gly	Ser	Ile	Leu	Ala	145	150	155	160
Tyr	Ala	Phe	Leu	Gly	Thr	Ala	Xaa	Ser	Cys	Phe	Ile	Ile	Gly	Asn	Leu	165	170	175	
Met	Tyr	Gly	Val	Val	Lys	Leu	Met	Lys	Ile	Met	Gly	Gln	Leu	Ser	Asp	180	185	190	
Lys	Phe	Tyr	Tyr	Thr	Xaa	Xaa	Leu	Phe	Phe	Gly	Ala	Ile	Ile	Ser	Ala	195	200	205	
Thr	Asp	Pro	Val	Thr	Val	Leu	Ala	Ile	Phe	Asn	Glu	Leu	His	Ala	Asp	210	215	220	
Val	Asp	Leu	Tyr	Ala	Leu	Leu	Phe	Gly	Glu	Ser	Val	Leu	Asn	Asp	Ala	225	230	235	240
Val	Ala	Ile	Xaa	Leu	Xaa	Ser	Ser	Ile	Val	Ala	Tyr	Gln	Pro	Ala	Gly	245	250	255	
Leu	Asn	Thr	His	Ala	Phe	Asp	Ala	Ala	Ala	Phe	Phe	Lys	Ser	Val	Gly	260	265	270	
Ile	Phe	Leu	Gly	Ile	Phe	Ser	Gly	Ser	Phe	Thr	Met	Gly	Ala	Val	Thr	275	280	285	
Gly	Val	Val	Thr	Ala	Xaa	Val	Thr	Lys	Phe	Thr	Lys	Xaa	His	Xaa	Phe	290	295	300	
Pro	Leu	Leu	Glu	Thr	Ala	Leu	Phe	Phe	Leu	Met	Ser	Trp	Ser	Thr	Phe	305	310	315	320
Leu	Leu	Ala	Glu	Ala	Cys	Gly	Phe	Thr	Gly	Val	Val	Ala	Val	Leu	Phe	325	330	335	
Cys	Gly	Ile	Thr	Gln	Ala	His	Tyr	Thr	Tyr	Asn	Asn	Leu	Ser	Val	Glu	340	345	350	
Ser	Arg	Ser	Arg	Thr	Lys	Gln	Leu	Phe	Glu	Val	Leu	His	Phe	Leu	Ala	355	360	365	
Glu	Asn	Phe	Ile	Phe	Ser	Tyr	Met	Gly	Leu	Ala	Leu	Phe	Thr	Phe	Gln	370	375	380	
Lys	His	Val	Phe	Ser	Pro	Ile	Phe	Ile	Ile	Gly	Ala	Phe	Val	Ala	Ile	385	390	395	400
Phe	Leu	Gly	Arg	Ala	Ala	His	Ile	Tyr	Pro	Leu	Ser	Phe	Phe	Leu	Asn	405	410	415	

Leu Gly Arg Arg His Lys Ile Gly Trp Asn Phe Gln His Met Met Met  
 420 425 430  
 Phe Ser Gly Leu Arg Gly Ala Met Ala Phe Ala Leu Ala Ile Arg Asp  
 435 440 445  
 Thr Ala Ser Tyr Ala Arg Gln Met Met Phe Thr Thr Thr Leu Leu Ile  
 450 455 460  
 Val Phe Phe Thr Val Trp Ile Ile Gly Gly Gly Thr Thr Pro Met Leu  
 465 470 475 480  
 Ser Trp Leu Asn Ile Arg Val Gly Val Asp Pro Asp Xaa Asp Pro Pro  
 485 490 495  
 Pro Xaa Xaa Asp Ser Phe Ala Phe Xaa Thr Glu Thr Ala  
 500 505

<210> 2188  
 <211> 146  
 <212> PRT  
 <213> Homo sapiens

<400> 2188

Met Thr Met Arg Ser Leu Leu Arg Thr Pro Phe Leu Cys Gly Leu Leu  
 1 5 10 15  
 Trp Ala Phe Cys Ala Pro Gly Ala Arg Ala Glu Glu Pro Ala Ala Ser  
 20 25 30  
 Phe Ser Gln Pro Gly Ser Met Gly Leu Asp Lys Asn Thr Val His Asp  
 35 40 45  
 Gln Glu His Ile Met Glu His Leu Glu Gly Val Ile Asn Lys Pro Glu  
 50 55 60  
 Ala Glu Met Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His  
 65 70 75 80  
 Asp Tyr Asp Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala  
 85 90 95  
 Ile Thr His Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu Met  
 100 105 110  
 Ser Glu Asp Glu Leu Ile Asn Ile Ile Asp Gly Val Leu Arg Asp Asp  
 115 120 125  
 Asp Lys Asn Asn Asp Gly Tyr Ile Asp Tyr Ala Glu Phe Ala Lys Ser  
 130 135 140  
 Leu Gln  
 145

<210> 2189  
<211> 530  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (488)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (490)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (494)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (495)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (505)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2189  
Met Glu Phe Gly Leu Thr Trp Val Phe Leu Val Ala Leu Leu Arg Gly  
1 5 10 15  
Val His Cys Gln Val Gln Leu Val Glu Ser Gly Gly Ala Val Val Gln  
20 25 30  
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe  
35 40 45  
Ser Arg Tyr Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu  
50 55 60  
Gln Trp Leu Ala Leu Val Leu His Asp Gly Gly Gln Lys Tyr Asn Glu  
65 70 75 80  
Asp Val Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Asn Asn  
85 90 95  
Lys Val Tyr Leu Gln Met Asp Ser Leu Arg Gly Glu Asp Thr Ala Thr  
100 105 110  
Tyr Tyr Cys Val Arg Gly Met Trp Glu Gln Leu Pro Ser Tyr Tyr Phe  
115 120 125  
Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Pro

130		135		140												
Thr	Ser	Pro	Lys	Val	Phe	Pro	Leu	Ser	Leu	Cys	Ser	Thr	Gln	Pro	Asp	
145					150					155					160	
Gly	Asn	Val	Val	Ile	Ala	Cys	Leu	Val	Gln	Gly	Phe	Phe	Pro	Gln	Glu	
				165					170					175		
Pro	Leu	Ser	Val	Thr	Trp	Ser	Glu	Ser	Gly	Gln	Gly	Val	Thr	Ala	Arg	
			180					185					190			
Asn	Phe	Pro	Pro	Ser	Gln	Asp	Ala	Ser	Gly	Asp	Leu	Tyr	Thr	Thr	Ser	
		195					200					205				
Ser	Gln	Leu	Thr	Leu	Pro	Ala	Thr	Gln	Cys	Leu	Ala	Gly	Lys	Ser	Val	
	210					215					220					
Thr	Cys	His	Val	Lys	His	Tyr	Thr	Asn	Pro	Ser	Gln	Asp	Val	Thr	Val	
225					230					235					240	
Pro	Cys	Pro	Val	Pro	Ser	Thr	Pro	Pro	Thr	Pro	Ser	Pro	Ser	Thr	Pro	
				245					250					255		
Pro	Thr	Pro	Ser	Pro	Ser	Cys	Cys	His	Pro	Arg	Leu	Ser	Leu	His	Arg	
			260					265					270			
Pro	Ala	Leu	Glu	Asp	Leu	Leu	Leu	Gly	Ser	Glu	Ala	Asn	Leu	Thr	Cys	
		275					280					285				
Thr	Leu	Thr	Gly	Leu	Arg	Asp	Ala	Ser	Gly	Val	Thr	Phe	Thr	Trp	Thr	
	290					295					300					
Pro	Ser	Ser	Gly	Lys	Ser	Ala	Val	Gln	Gly	Pro	Pro	Asp	Arg	Asp	Leu	
305					310					315					320	
Cys	Gly	Cys	Tyr	Ser	Val	Ser	Ser	Val	Leu	Pro	Gly	Cys	Ala	Glu	Pro	
				325					330					335		
Trp	Asn	His	Gly	Lys	Thr	Phe	Thr	Cys	Thr	Ala	Ala	Tyr	Pro	Glu	Ser	
			340					345					350			
Lys	Thr	Pro	Leu	Thr	Ala	Thr	Leu	Ser	Lys	Ser	Gly	Asn	Thr	Phe	Arg	
		355					360					365				
Pro	Glu	Val	His	Leu	Leu	Pro	Pro	Pro	Ser	Glu	Glu	Leu	Ala	Leu	Asn	
		370				375					380					
Glu	Leu	Val	Thr	Leu	Thr	Cys	Leu	Ala	Arg	Gly	Phe	Ser	Pro	Lys	Asp	
385					390					395					400	
Val	Leu	Val	Arg	Trp	Leu	Gln	Gly	Ser	Gln	Glu	Leu	Pro	Arg	Glu	Lys	
				405					410					415		
Tyr	Leu	Thr	Trp	Ala	Ser	Arg	Gln	Glu	Pro	Ser	Gln	Gly	Thr	Thr	Thr	
			420					425					430			
Phe	Ala	Val	Thr	Ser	Ile	Leu	Arg	Val	Ala	Ala	Glu	Asp	Trp	Lys	Lys	

435		440		445
Gly Asp Thr Phe Ser Cys Met Val Gly His Glu Ala Leu Pro Leu Ala				
450		455		460
Phe Thr Gln Lys Thr Ile Asp Arg Leu Ala Gly Lys Pro Thr His Val				
465		470		480
Asn Val Ser Val Val Met Ala Xaa Val Xaa Gly Pro Cys Xaa Xaa Ala				
	485		490	495
Ala Arg Leu Ser Pro Pro Leu Asn Xaa Leu His Ala Pro Pro Lys Lys				
	500		505	510
Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys				
	515		520	525
Lys Lys				
	530			

<210> 2190  
 <211> 265  
 <212> PRT  
 <213> Homo sapiens

<400> 2190

Met Gly Gly Gln Val Ala Gly Val Tyr Ala Ala Tyr Tyr Pro Ser Asp				
1		5		10
				15
Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu Gln Tyr Ser Thr				
	20		25	30
Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln Gly Ser Ala Ala				
	35		40	45
Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu Glu Met Ser Glu				
	50		55	60
Met Leu Gln Leu Cys Ser Tyr Val Arg Phe Lys Val Pro Gln Gln Ile				
65		70		75
				80
Leu Gln Gly Leu Val Asp Val Arg Ile Pro His Asn Asn Phe Tyr Arg				
	85		90	95
Lys Leu Phe Leu Glu Ile Val Ser Glu Lys Ser Arg Tyr Ser Leu His				
	100		105	110
Gln Asn Met Asp Lys Ile Lys Val Pro Thr Gln Ile Ile Trp Gly Lys				
	115		120	125
Gln Asp Ala Gly Ala Gly Cys Val Trp Gly Arg His Val Gly Gln Val				
	130		135	140
Asn Cys Gln Leu Pro Gly Gly Ala Ser Gly Lys Leu Trp Ala Leu Ser				
145		150		155
				160



Ser Asp Gly Lys Thr Gln Glu Asp Ser Gln Ala His Asn Arg Leu Phe  
 165 170 175  
 Ser Phe Cys Ala Gln His Arg Gln Gln Gln Glu Ala Gly Leu Arg Pro  
 180 185 190  
 Arg Leu Gln Pro Ala Phe Cys Thr Gln His Leu Leu Pro Ser Pro Lys  
 195 200 205  
 Ser Asp Ala Ala Thr Thr Leu Arg Asp Pro Ala Pro Asn Ala Val Gly  
 210 215 220  
 Ala Pro Val Thr Leu Arg Lys Pro Val Pro Tyr Pro Trp Tyr Pro Arg  
 225 230 235 240  
 Phe Pro Arg Ala Leu Gly Thr Thr Arg Lys Pro Pro Arg Tyr Phe Ser  
 245 250 255  
 Gln Asn Arg Asn Ser Tyr Gly Thr Lys  
 260 265

<210> 2191  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 2191

Met Ala Val Trp Gly Asp Thr Glu Leu Ala Ala Gly Val Phe Cys Phe  
 1 5 10 15  
 Phe Leu Phe Phe Cys Phe Leu Tyr Leu Ser Gly Thr Trp Asn Ala Ser  
 20 25 30  
 Lys Thr Glu Leu Phe Thr Pro Leu Glu Arg Glu Leu Lys Pro Gly His  
 35 40 45  
 Pro Ser Gly Met Leu Ser Gly Ser His Pro His Gly Ala Gln Gln Ala  
 50 55 60  
 Lys Ser Thr Gly Leu Lys Leu Ser Leu Pro Ala Gln Gln Ser Glu Val  
 65 70 75 80  
 Asp Leu Gly Cys Ser Ser Leu Val Trp Gly Gly Ala Ser Ala Ile Thr  
 85 90 95  
 Glu Ala Leu

<210> 2192  
 <211> 144  
 <212> PRT  
 <213> Homo sapiens



<400> 2192

Met	Pro	Thr	Thr	Thr	Glu	Gln	Pro	Val	Thr	Thr	Thr	Phe	Pro	Val	Thr
1				5					10					15	
Thr	Gly	Leu	Lys	Pro	Thr	Val	Ala	Leu	Cys	Gln	Gln	Lys	Cys	Arg	Arg
			20					25					30		
Thr	Gly	Thr	Leu	Glu	Gly	Asn	Tyr	Cys	Ser	Ser	Asp	Phe	Val	Leu	Ala
		35					40					45			
Gly	Thr	Val	Ile	Thr	Thr	Ile	Thr	Arg	Asp	Gly	Ser	Leu	His	Ala	Thr
	50					55					60				
Val	Ser	Ile	Ile	Asn	Ile	Tyr	Lys	Glu	Gly	Asn	Leu	Ala	Ile	Gln	Gln
65					70					75					80
Ala	Gly	Lys	Asn	Met	Ser	Ala	Arg	Leu	Thr	Val	Val	Cys	Lys	Gln	Cys
				85					90					95	
Pro	Leu	Leu	Arg	Arg	Gly	Leu	Asn	Tyr	Ile	Ile	Met	Gly	Gln	Val	Gly
			100					105					110		
Glu	Asp	Gly	Arg	Gly	Lys	Ile	Met	Pro	Asn	Ser	Phe	Ile	Met	Met	Phe
		115					120					125			
Lys	Thr	Lys	Asn	Gln	Lys	Leu	Leu	Asp	Ala	Leu	Lys	Asn	Lys	Gln	Cys
	130					135					140				

<210> 2193

<211> 294

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2193

Met	Met	Val	Gln	Met	Ile	Ser	Asp	Ala	Asn	Thr	Ala	Gly	Asn	Gly	Phe
1				5					10					15	
Met	Ala	Met	Phe	Ser	Ala	Ala	Glu	Pro	Asn	Glu	Arg	Gly	Asp	Gln	Tyr
			20					25					30		
Cys	Gly	Gly	Leu	Leu	Asp	Arg	Pro	Ser	Gly	Ser	Phe	Lys	Thr	Pro	Asn

	35		40		45												
Trp	Pro	Asp	Arg	Asp	Tyr	Pro	Ala	Gly	Val	Thr	Cys	Val	Trp	His	Ile		
	50					55					60						
Val	Ala	Pro	Lys	Asn	Gln	Leu	Ile	Glu	Leu	Lys	Phe	Glu	Lys	Phe	Asp		
65					70					75					80		
Val	Glu	Arg	Asp	Asn	Tyr	Cys	Arg	Tyr	Asp	Tyr	Val	Xaa	Val	Phe	Asn		
				85					90					95			
Xaa	Gly	Glu	Val	Asn	Asp	Ala	Arg	Arg	Ile	Gly	Lys	Tyr	Cys	Gly	Asp		
			100					105					110				
Ser	Pro	Pro	Ala	Pro	Ile	Val	Ser	Glu	Arg	Asn	Glu	Leu	Leu	Ile	Gln		
	115						120					125					
Phe	Leu	Ser	Asp	Leu	Ser	Leu	Thr	Ala	Asp	Gly	Phe	Ile	Gly	His	Tyr		
	130					135					140						
Ile	Phe	Arg	Pro	Lys	Lys	Leu	Pro	Thr	Thr	Thr	Glu	Gln	Pro	Val	Thr		
145					150					155					160		
Thr	Thr	Phe	Pro	Val	Thr	Thr	Gly	Leu	Lys	Pro	Thr	Val	Ala	Leu	Cys		
				165					170					175			
Gln	Gln	Lys	Cys	Arg	Arg	Thr	Gly	Thr	Leu	Glu	Gly	Asn	Tyr	Cys	Ser		
			180					185					190				
Ser	Asp	Phe	Val	Leu	Ala	Gly	Thr	Val	Ile	Thr	Thr	Ile	Thr	Arg	Asp		
	195						200					205					
Gly	Ser	Leu	His	Ala	Thr	Val	Ser	Ile	Ile	Asn	Ile	Tyr	Lys	Glu	Gly		
	210					215					220						
Asn	Leu	Ala	Ile	Gln	Gln	Ala	Gly	Lys	Asn	Met	Ser	Ala	Arg	Leu	Thr		
225					230				235						240		
Val	Val	Cys	Lys	Gln	Cys	Pro	Leu	Leu	Arg	Arg	Gly	Leu	Asn	Tyr	Ile		
				245					250					255			
Ile	Met	Gly	Gln	Val	Gly	Glu	Asp	Gly	Arg	Gly	Lys	Ile	Met	Pro	Asn		
			260					265					270				
Ser	Phe	Ile	Met	Met	Phe	Lys	Thr	Lys	Asn	Gln	Lys	Leu	Leu	Asp	Ala		
	275						280					285					
Leu	Lys	Asn	Lys	Gln	Cys												
	290																

<210> 2194  
 <211> 487  
 <212> PRT  
 <213> Homo sapiens

<400> 2194

Met	Lys	His	Leu	Trp	Phe	Phe	Leu	Leu	Leu	Val	Ala	Ala	Pro	Arg	Trp
1				5					10					15	
Val	Leu	Ser	Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Lys
			20					25					30		
Pro	Ser	Glu	Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	Gly	Ser	Ile
		35					40					45			
Ser	Ser	Gly	Gly	His	Tyr	Trp	Ser	Trp	Ile	Arg	Gln	His	Pro	Gly	Lys
	50					55					60				
Gly	Leu	Glu	Trp	Ile	Gly	Tyr	Ile	Ser	Tyr	Asn	Gly	Val	Thr	Tyr	Tyr
65				70						75					80
Asn	Pro	Ser	Leu	Lys	Ser	Arg	Val	Thr	Ile	Ser	Val	Asp	Thr	Ser	Gln
				85					90					95	
Asn	Gln	Phe	Ser	Leu	Arg	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	Thr	Ala
			100					105					110		
Val	Tyr	Tyr	Cys	Ala	Lys	Asp	His	Arg	Ala	Thr	Arg	Asp	Gly	Tyr	Gln
	115						120					125			
Leu	Glu	Tyr	Arg	Gly	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Ile	Leu	Val	Thr
	130					135					140				
Val	Ser	Ser	Ala	Ser	Pro	Thr	Ser	Pro	Lys	Val	Phe	Pro	Leu	Ser	Leu
145					150					155					160
Asp	Ser	Thr	Pro	Gln	Asp	Gly	Asn	Val	Val	Val	Ala	Cys	Leu	Val	Gln
				165					170					175	
Gly	Phe	Phe	Pro	Gln	Glu	Pro	Leu	Ser	Val	Thr	Trp	Ser	Glu	Ser	Gly
			180					185					190		
Gln	Asn	Val	Thr	Ala	Arg	Asn	Phe	Pro	Pro	Ser	Gln	Asp	Ala	Ser	Gly
		195					200					205			
Asp	Leu	Tyr	Thr	Thr	Ser	Ser	Gln	Leu	Thr	Leu	Pro	Ala	Thr	Gln	Cys
	210					215					220				
Pro	Asp	Gly	Lys	Ser	Val	Thr	Cys	His	Val	Lys	His	Tyr	Thr	Asn	Pro
225					230					235					240
Ser	Gln	Asp	Val	Thr	Val	Pro	Cys	Pro	Val	Pro	Pro	Pro	Pro	Pro	Cys
				245					250					255	
Cys	His	Pro	Arg	Leu	Ser	Leu	His	Arg	Pro	Ala	Leu	Glu	Asp	Leu	Leu
			260					265					270		
Leu	Gly	Ser	Glu	Ala	Asn	Leu	Thr	Cys	Thr	Leu	Thr	Gly	Leu	Arg	Asp
	275						280					285			
Ala	Ser	Gly	Ala	Thr	Phe	Thr	Trp	Thr	Pro	Ser	Ser	Gly	Lys	Ser	Ala
	290					295					300				

Val	Gln	Gly	Pro	Pro	Glu	Arg	Asp	Leu	Cys	Gly	Cys	Tyr	Ser	Val	Ser				
305					310					315					320				
Ser	Val	Leu	Pro	Gly	Cys	Ala	Gln	Pro	Trp	Asn	His	Gly	Glu	Thr	Phe				
				325					330					335					
Thr	Cys	Thr	Ala	Ala	His	Pro	Glu	Leu	Lys	Thr	Pro	Leu	Thr	Ala	Asn				
			340					345					350						
Ile	Thr	Lys	Ser	Gly	Asn	Thr	Phe	Arg	Pro	Glu	Val	His	Leu	Leu	Pro				
		355					360					365							
Pro	Pro	Ser	Glu	Glu	Leu	Ala	Leu	Asn	Glu	Leu	Val	Thr	Leu	Thr	Cys				
	370					375					380								
Leu	Ala	Arg	Gly	Phe	Ser	Pro	Lys	Asp	Val	Leu	Val	Arg	Trp	Leu	Gln				
385					390					395					400				
Gly	Ser	Gln	Glu	Leu	Pro	Arg	Glu	Lys	Tyr	Leu	Thr	Trp	Ala	Ser	Arg				
			405					410						415					
Gln	Glu	Pro	Ser	Gln	Gly	Thr	Thr	Thr	Phe	Ala	Val	Thr	Ser	Ile	Leu				
			420					425					430						
Arg	Val	Ala	Ala	Glu	Asp	Trp	Lys	Lys	Gly	Asp	Thr	Phe	Ser	Cys	Met				
		435					440					445							
Val	Gly	His	Glu	Ala	Leu	Pro	Leu	Ala	Phe	Thr	Gln	Lys	Thr	Ile	Asp				
	450					455					460								
Arg	Leu	Ala	Gly	Lys	Pro	Thr	His	Val	Asn	Val	Ser	Val	Val	Met	Ala				
465					470					475					480				
Glu	Val	Asp	Gly	Thr	Cys	Tyr													
				485															

<210> 2195  
 <211> 189  
 <212> PRT  
 <213> Homo sapiens

<400> 2195  
 Met Gly Gly Gln Val Ala Gly Val Tyr Ala Ala Tyr Tyr Pro Ser Asp  
 1 5 10 15  
 Val Ser Ser Leu Cys Leu Val Cys Pro Ala Gly Leu Gln Tyr Ser Thr  
 20 25 30  
 Asp Asn Gln Phe Val Gln Arg Leu Lys Glu Leu Gln Gly Ser Ala Ala  
 35 40 45  
 Val Glu Lys Ile Pro Leu Ile Pro Ser Thr Pro Glu Glu Met Ser Glu  
 50 55 60

Met	Leu	Gln	Leu	Cys	Ser	Tyr	Val	Arg	Phe	Lys	Val	Pro	Gln	Gln	Ile
65					70					75					80
Leu	Gln	Gly	Leu	Val	Asp	Val	Arg	Ile	Pro	His	Asn	Asn	Phe	Tyr	Arg
				85					90					95	
Lys	Leu	Phe	Leu	Glu	Ile	Val	Ser	Glu	Lys	Ser	Arg	Tyr	Ser	Leu	His
			100					105					110		
Gln	Asn	Met	Asp	Lys	Ile	Lys	Val	Pro	Thr	Gln	Ile	Ile	Trp	Gly	Lys
		115					120					125			
Gln	Asp	Gln	Val	Leu	Asp	Val	Ser	Gly	Ala	Asp	Met	Leu	Ala	Lys	Ser
	130					135					140				
Ile	Ala	Asn	Cys	Gln	Val	Glu	Leu	Leu	Glu	Asn	Cys	Gly	His	Ser	Val
145					150					155					160
Val	Met	Glu	Arg	Pro	Arg	Lys	Thr	Ala	Lys	Leu	Ile	Ile	Asp	Phe	Leu
				165					170					175	
Ala	Ser	Val	His	Asn	Thr	Asp	Asn	Asn	Lys	Lys	Leu	Asp			
			180				185								

<210> 2196  
 <211> 298  
 <212> PRT  
 <213> Homo sapiens

<400> 2196

Met	Lys	Thr	Leu	Gln	Ser	Thr	Leu	Leu	Leu	Leu	Leu	Val	Pro	Leu	
1				5				10					15		
Ile	Lys	Pro	Ala	Pro	Pro	Thr	Gln	Gln	Asp	Ser	Arg	Ile	Ile	Tyr	Asp
			20					25					30		
Tyr	Gly	Thr	Asp	Asn	Phe	Glu	Glu	Ser	Ile	Phe	Ser	Gln	Asp	Tyr	Glu
		35					40					45			
Asp	Lys	Tyr	Leu	Asp	Gly	Lys	Asn	Ile	Lys	Glu	Lys	Glu	Thr	Val	Ile
	50					55					60				
Ile	Pro	Asn	Glu	Lys	Ser	Leu	Gln	Leu	Gln	Lys	Asp	Glu	Ala	Ile	Thr
65					70					75					80
Pro	Leu	Pro	Pro	Lys	Lys	Glu	Asn	Asp	Glu	Met	Pro	Thr	Cys	Leu	Leu
				85					90					95	
Cys	Val	Cys	Leu	Ser	Gly	Ser	Val	Tyr	Cys	Glu	Glu	Val	Asp	Ile	Asp
			100					105					110		
Ala	Val	Pro	Pro	Leu	Pro	Lys	Glu	Ser	Ala	Tyr	Leu	Tyr	Ala	Arg	Phe
				115			120					125			
Asn	Lys	Ile	Lys	Lys	Leu	Thr	Ala	Lys	Asp	Phe	Ala	Asp	Ile	Pro	Asn

130		135		140
Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp				
145		150		155 160
Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu				
	165		170	175
Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe				
	180		185	190
Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala				
	195		200	205
Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala				
	210		215	220
Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His				
225		230		235 240
Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys				
	245		250	255
Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu				
	260		265	270
Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys				
	275		280	285
Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe				
	290		295	

<210> 2197  
 <211> 298  
 <212> PRT  
 <213> Homo sapiens

<400> 2197

Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Leu Val Pro Leu				
1		5		10 15
Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp				
	20		25	30
Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu				
	35		40	45
Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile				
	50		55	60
Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr				
	65		70	75 80
Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu				
	85		90	95

Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp  
 100 105 110  
 Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe  
 115 120 125  
 Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn  
 130 135 140  
 Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp  
 145 150 155 160  
 Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu  
 165 170 175  
 Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe  
 180 185 190  
 Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala  
 195 200 205  
 Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala  
 210 215 220  
 Leu Glu Ser Val Pro Leu Asn Leu Pro Glu Ser Leu Arg Val Ile His  
 225 230 235 240  
 Leu Gln Phe Asn Asn Ile Ala Ser Ile Thr Asp Asp Thr Phe Cys Lys  
 245 250 255  
 Ala Asn Asp Thr Ser Tyr Ile Arg Asp Arg Ile Glu Glu Ile Arg Leu  
 260 265 270  
 Glu Gly Asn Pro Ile Val Leu Gly Lys His Pro Asn Ser Phe Ile Cys  
 275 280 285  
 Leu Lys Arg Leu Pro Ile Gly Ser Tyr Phe  
 290 295

<210> 2198  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 2198  
 Met Glu Cys Lys Lys Arg Ile Gln Leu Ile Met Leu Ala Ser Ile Val  
 1 5 10 15  
 Arg Leu Pro Pro Thr Glu Gln Ser Gly Leu Leu Lys Thr Arg Phe His  
 20 25 30  
 Asn Phe Cys Gln Arg Asn Leu Gln Ser Ser  
 35 40



<210> 2199

<211> 472

<212> PRT

<213> Homo sapiens

<400> 2199

Met Ile Arg Thr Arg Arg Gly Trp Ser Ser Met Trp Pro Trp Ile Gly  
1 5 10 15

Val Gly Tyr Leu Ala Gly Cys Leu Val His Ala Leu Gly Glu Lys Gln  
20 25 30

Pro Glu Leu Gln Ile Ser Glu Arg Asp Val Leu Cys Val Gln Ile Ala  
35 40 45

Gly Leu Cys His Asp Leu Gly His Gly Pro Phe Ser His Met Phe Asp  
50 55 60

Gly Arg Phe Ile Pro Leu Ala Arg Pro Glu Val Lys Trp Thr His Glu  
65 70 75 80

Gln Gly Ser Val Met Met Phe Glu His Leu Ile Asn Ser Asn Gly Ile  
85 90 95

Lys Pro Val Met Glu Gln Tyr Gly Leu Ile Pro Glu Glu Asp Ile Cys  
100 105 110

Phe Ile Lys Glu Gln Ile Val Gly Pro Leu Glu Ser Pro Val Glu Asp  
115 120 125

Ser Leu Trp Pro Tyr Lys Gly Arg Pro Glu Asn Lys Ser Phe Leu Tyr  
130 135 140

Glu Ile Val Ser Asn Lys Arg Asn Gly Ile Asp Val Asp Lys Trp Asp  
145 150 155 160

Tyr Phe Ala Arg Asp Cys His His Leu Gly Ile Gln Asn Asn Phe Asp  
165 170 175

Tyr Lys Arg Phe Ile Lys Phe Ala Arg Val Cys Glu Val Asp Asn Glu  
180 185 190

Leu Arg Ile Cys Ala Arg Asp Lys Glu Val Gly Asn Leu Tyr Asp Met  
195 200 205

Phe His Thr Arg Asn Ser Leu His Arg Arg Ala Tyr Gln His Lys Val  
210 215 220

Gly Asn Ile Ile Asp Thr Met Ile Thr Asp Ala Phe Leu Glu Ala Asp  
225 230 235 240

Asp Tyr Ile Glu Ile Thr Gly Ala Gly Gly Lys Lys Tyr Arg Ile Ser  
245 250 255

Thr Ala Ile Asp Asp Met Glu Ala Tyr Thr Lys Leu Thr Asp Asn Ile



260					265					270					
Phe	Leu	Glu	Ile	Leu	Tyr	Ser	Thr	Asp	Pro	Lys	Leu	Lys	Asp	Ala	Arg
		275					280					285			
Glu	Ile	Leu	Lys	Gln	Ile	Glu	Tyr	Arg	Asn	Leu	Phe	Lys	Tyr	Val	Gly
		290					295					300			
Glu	Thr	Gln	Pro	Thr	Gly	Gln	Ile	Lys	Ile	Lys	Arg	Glu	Asp	Tyr	Glu
					310					315					320
Ser	Leu	Pro	Lys	Glu	Val	Ala	Ser	Ala	Lys	Pro	Lys	Val	Leu	Leu	Asp
				325					330					335	
Val	Lys	Leu	Lys	Ala	Glu	Asp	Phe	Ile	Val	Asp	Val	Ile	Asn	Met	Asp
				340				345					350		
Tyr	Gly	Met	Gln	Glu	Lys	Asn	Pro	Ile	Asp	His	Val	Ser	Phe	Tyr	Cys
		355					360					365			
Lys	Thr	Ala	Pro	Asn	Arg	Ala	Ile	Arg	Ile	Thr	Lys	Asn	Gln	Val	Ser
		370				375					380				
Gln	Leu	Leu	Pro	Glu	Lys	Phe	Ala	Glu	Gln	Leu	Ile	Arg	Val	Tyr	Cys
				390						395					400
Lys	Lys	Val	Asp	Arg	Lys	Ser	Leu	Tyr	Ala	Ala	Arg	Gln	Tyr	Phe	Val
				405					410					415	
Gln	Trp	Cys	Ala	Asp	Arg	Asn	Phe	Thr	Lys	Pro	Gln	Asp	Gly	Asp	Val
			420					425					430		
Ile	Ala	Pro	Leu	Ile	Thr	Pro	Gln	Lys	Lys	Glu	Trp	Asn	Asp	Ser	Thr
				435			440					445			
Ser	Val	Gln	Asn	Pro	Thr	Arg	Leu	Arg	Glu	Ala	Ser	Lys	Ser	Arg	Val
		450				455					460				
Gln	Leu	Phe	Lys	Asp	Asp	Pro	Met								
				465		470									

<210> 2200  
 <211> 626  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (353)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (354)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (363)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2200

Met	Gln	Arg	Ala	Asp	Ser	Glu	Gln	Pro	Ser	Lys	Arg	Pro	Arg	Cys	Asp
1				5					10					15	

Asp	Ser	Pro	Arg	Thr	Pro	Ser	Asn	Thr	Pro	Ser	Ala	Glu	Ala	Asp	Trp
			20					25					30		

Ser	Pro	Gly	Leu	Glu	Leu	His	Pro	Asp	Tyr	Lys	Thr	Trp	Gly	Pro	Glu
		35					40					45			

Gln	Val	Cys	Ser	Phe	Leu	Arg	Arg	Gly	Gly	Phe	Glu	Glu	Pro	Val	Leu
	50					55					60				

Leu	Lys	Asn	Ile	Arg	Glu	Asn	Glu	Ile	Thr	Gly	Ala	Leu	Leu	Pro	Cys
65					70					75					80

Leu	Asp	Glu	Ser	Arg	Phe	Glu	Asn	Leu	Gly	Val	Ser	Ser	Leu	Gly	Glu
				85					90					95	

Arg	Lys	Lys	Leu	Leu	Ser	Tyr	Ile	Gln	Arg	Leu	Val	Gln	Ile	His	Val
			100					105					110		

Asp	Thr	Met	Lys	Val	Ile	Asn	Asp	Pro	Ile	His	Gly	His	Ile	Glu	Leu
		115					120					125			

His	Pro	Leu	Leu	Val	Arg	Ile	Ile	Asp	Thr	Pro	Gln	Phe	Gln	Arg	Leu
	130					135					140				

Arg	Tyr	Ile	Lys	Gln	Leu	Gly	Gly	Gly	Tyr	Tyr	Val	Phe	Pro	Gly	Ala
145					150					155					160

Ser	His	Asn	Arg	Phe	Glu	His	Ser	Leu	Gly	Val	Gly	Tyr	Leu	Ala	Gly
				165					170					175	

Cys	Leu	Val	His	Ala	Leu	Gly	Glu	Lys	Gln	Pro	Glu	Leu	Gln	Ile	Ser
			180					185					190		

Glu	Arg	Asp	Val	Leu	Cys	Val	Gln	Ile	Ala	Gly	Leu	Cys	His	Asp	Leu
		195					200					205			

Gly	His	Gly	Pro	Phe	Ser	His	Met	Phe	Asp	Gly	Arg	Phe	Ile	Pro	Leu
	210					215					220				

Ala	Arg	Pro	Glu	Val	Lys	Trp	Thr	His	Glu	Gln	Gly	Ser	Val	Met	Met
225					230					235					240

Phe	Glu	His	Leu	Ile	Asn	Ser	Asn	Gly	Ile	Lys	Pro	Val	Met	Glu	Gln
				245					250					255	

Tyr	Gly	Leu	Ile	Pro	Glu	Glu	Asp	Ile	Cys	Phe	Ile	Lys	Glu	Gln	Ile
			260					265					270		

Val	Gly	Pro	Leu	Glu	Ser	Pro	Val	Glu	Asp	Ser	Leu	Trp	Pro	Tyr	Lys	275	280	285
Gly	Arg	Pro	Glu	Asn	Lys	Ser	Phe	Leu	Tyr	Glu	Ile	Val	Ser	Asn	Lys	290	295	300
Arg	Asn	Gly	Ile	Asp	Val	Asp	Lys	Trp	Asp	Tyr	Phe	Ala	Arg	Asp	Cys	305	310	315
His	His	Leu	Gly	Ile	Gln	Asn	Asn	Phe	Asp	Tyr	Lys	Arg	Phe	Ile	Lys	325	330	335
Phe	Ala	Arg	Val	Cys	Glu	Val	Asp	Asn	Glu	Leu	Arg	Ile	Cys	Ala	Arg	340	345	350
Xaa	Xaa	Glu	Val	Gly	Asn	Leu	Tyr	Asp	Met	Xaa	His	Thr	Arg	Asn	Ser	355	360	365
Leu	His	Arg	Arg	Ala	Tyr	Gln	His	Lys	Val	Gly	Asn	Ile	Ile	Asp	Thr	370	375	380
Met	Ile	Thr	Asp	Ala	Phe	Leu	Lys	Ala	Asp	Asp	Tyr	Ile	Glu	Ile	Thr	385	390	395
Gly	Ala	Gly	Gly	Lys	Lys	Tyr	Arg	Ile	Ser	Thr	Ala	Ile	Asp	Asp	Met	405	410	415
Glu	Ala	Tyr	Thr	Lys	Leu	Thr	Asp	Asn	Ile	Phe	Leu	Glu	Ile	Leu	Tyr	420	425	430
Ser	Thr	Asp	Pro	Lys	Leu	Lys	Asp	Ala	Arg	Glu	Ile	Leu	Lys	Gln	Ile	435	440	445
Glu	Tyr	Arg	Asn	Leu	Phe	Lys	Tyr	Val	Gly	Glu	Thr	Gln	Pro	Thr	Gly	450	455	460
Gln	Ile	Lys	Ile	Lys	Arg	Glu	Asp	Tyr	Glu	Ser	Leu	Pro	Lys	Glu	Val	465	470	475
Ala	Ser	Ala	Lys	Pro	Lys	Val	Leu	Leu	Asp	Val	Lys	Leu	Lys	Ala	Glu	485	490	495
Asp	Phe	Ile	Val	Asp	Val	Ile	Asn	Met	Asp	Tyr	Gly	Met	Gln	Glu	Lys	500	505	510
Asn	Pro	Ile	Asp	His	Val	Ser	Phe	Tyr	Cys	Lys	Thr	Ala	Pro	Asn	Arg	515	520	525
Ala	Ile	Arg	Ile	Thr	Lys	Asn	Gln	Val	Ser	Gln	Leu	Leu	Pro	Glu	Lys	530	535	540
Phe	Ala	Glu	Gln	Leu	Ile	Arg	Val	Tyr	Cys	Lys	Lys	Val	Asp	Arg	Lys	545	550	555
Ser	Leu	Tyr	Ala	Ala	Arg	Gln	Tyr	Phe	Val	Gln	Trp	Cys	Ala	Asp	Arg	565	570	575

Asn Phe Thr Lys Pro Gln Asp Gly Asp Val Ile Ala Pro Leu Ile Thr  
580 585 590

Pro Gln Lys Lys Glu Trp Asn Asp Ser Thr Ser Val Gln Asn Pro Thr  
595 600 605

Arg Leu Arg Glu Ala Ser Lys Ser Arg Val Gln Leu Phe Lys Asp Asp  
610 615 620

Pro Met  
625

<210> 2201  
<211> 245  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (128)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2201  
Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser  
1 5 10 15

Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys  
20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys  
35 40 45

Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln  
50 55 60

Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly  
65 70 75 80

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile  
85 90 95

Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln  
100 105 110

Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Xaa  
115 120 125

Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr  
130 135 140

Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr  
145 150 155 160

Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val

				165					170					175		
Ser	Ser	Ser	Arg	Gly	Gln	Val	Arg	Arg	Ser	Leu	Gly	Phe	Cys	Asp	Thr	
			180					185					190			
Thr	Asn	Lys	Gly	Leu	Phe	Gln	Val	Val	Ser	Gly	Gly	Met	Val	Leu	Gln	
		195					200					205				
Leu	Gln	Gln	Gly	Asp	Gln	Val	Trp	Val	Glu	Lys	Asp	Pro	Lys	Lys	Gly	
	210					215					220					
His	Ile	Tyr	Gln	Gly	Ser	Glu	Ala	Asp	Ser	Val	Phe	Ser	Gly	Phe	Leu	
225					230					235					240	
Ile	Phe	Pro	Ser	Ala												
				245												

<210> 2202  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 2202																
Met	Gly	Val	Asn	Lys	Val	Leu	Phe	Thr	Phe	Phe	Phe	Phe	Ser	Ser	Leu	
1				5					10					15		
Leu	Asp	Gly	Val	Gly	Thr	Ser	His	Ser	Leu	Ala	Ser	Phe	Pro	His	Thr	
			20					25					30			

<210> 2203  
 <211> 245  
 <212> PRT  
 <213> Homo sapiens

<400> 2203																
Met	Glu	Gly	Pro	Arg	Gly	Trp	Leu	Val	Leu	Cys	Val	Leu	Ala	Ile	Ser	
1				5					10					15		
Leu	Ala	Ser	Met	Val	Thr	Glu	Asp	Leu	Cys	Arg	Ala	Pro	Asp	Gly	Lys	
			20					25					30			
Lys	Gly	Glu	Ala	Gly	Arg	Pro	Gly	Arg	Arg	Gly	Arg	Pro	Gly	Leu	Lys	
		35					40					45				
Gly	Glu	Gln	Gly	Glu	Pro	Gly	Ala	Pro	Gly	Ile	Arg	Thr	Gly	Ile	Gln	
	50					55					60					
Gly	Leu	Lys	Gly	Asp	Gln	Gly	Glu	Pro	Gly	Pro	Ser	Gly	Asn	Pro	Gly	
65					70					75					80	

Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile  
                             85                            90                            95  
 Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln  
                             100                            105                            110  
 Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly  
                             115                            120                            125  
 Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr  
             130                            135                            140  
 Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr  
 145                            150                            155                            160  
 Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val  
                             165                            170                            175  
 Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr  
                             180                            185                            190  
 Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln  
                             195                            200                            205  
 Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly  
             210                            215                            220  
 His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu  
 225                            230                            235                            240  
 Ile Phe Pro Ser Ala  
                             245

<210> 2204  
 <211> 245  
 <212> PRT  
 <213> Homo sapiens

<400> 2204

Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser  
     1                            5                            10                            15  
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys  
             20                            25                            30  
 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Leu Lys  
             35                            40                            45  
 Gly Glu Gln Gly Glu Pro Gly Ala Pro Gly Ile Arg Thr Gly Ile Gln  
             50                            55                            60  
 Gly Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly  
     65                            70                            75                            80  
 Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile

				85					90					95					
Pro	Gly	Ile	Lys	Gly	Thr	Lys	Gly	Ser	Pro	Gly	Asn	Ile	Lys	Asp	Gln				
			100					105					110						
Pro	Arg	Pro	Ala	Phe	Ser	Ala	Ile	Arg	Arg	Asn	Pro	Pro	Met	Gly	Gly				
		115					120					125							
Asn	Val	Val	Ile	Phe	Asp	Thr	Val	Ile	Thr	Asn	Gln	Glu	Glu	Pro	Tyr				
	130					135					140								
Gln	Asn	His	Ser	Gly	Arg	Phe	Val	Cys	Thr	Val	Pro	Gly	Tyr	Tyr	Tyr				
145					150					155					160				
Phe	Thr	Phe	Gln	Val	Leu	Ser	Gln	Trp	Glu	Ile	Cys	Leu	Ser	Ile	Val				
			165						170					175					
Ser	Ser	Ser	Arg	Gly	Gln	Val	Arg	Arg	Ser	Leu	Gly	Phe	Cys	Asp	Thr				
			180					185					190						
Thr	Asn	Lys	Gly	Leu	Phe	Gln	Val	Val	Ser	Gly	Gly	Met	Val	Leu	Gln				
	195						200					205							
Leu	Gln	Gln	Gly	Asp	Gln	Val	Trp	Val	Glu	Lys	Asp	Pro	Lys	Lys	Gly				
	210					215					220								
His	Ile	Tyr	Gln	Gly	Ser	Glu	Ala	Asp	Ser	Val	Phe	Ser	Gly	Phe	Leu				
225					230					235					240				
Ile	Phe	Pro	Ser	Ala															
				245															

<210> 2205  
 <211> 245  
 <212> PRT  
 <213> Homo sapiens

<400> 2205																			
Met	Glu	Gly	Pro	Arg	Gly	Trp	Leu	Val	Leu	Cys	Val	Leu	Ala	Ile	Ser				
1				5					10					15					
Leu	Ala	Ser	Met	Val	Thr	Glu	Asp	Leu	Cys	Arg	Ala	Pro	Asp	Gly	Lys				
			20					25					30						
Lys	Gly	Glu	Ala	Gly	Arg	Pro	Gly	Arg	Arg	Gly	Arg	Pro	Gly	Leu	Lys				
		35					40					45							
Gly	Glu	Gln	Gly	Glu	Pro	Gly	Ala	Pro	Gly	Ile	Arg	Thr	Gly	Ile	Gln				
	50					55					60								
Gly	Leu	Lys	Gly	Asp	Gln	Gly	Glu	Pro	Gly	Pro	Ser	Gly	Asn	Pro	Gly				
65					70				75					80					
Lys	Val	Gly	Tyr	Pro	Gly	Pro	Ser	Gly	Pro	Leu	Gly	Ala	Arg	Gly	Ile				
				85					90					95					



Pro	Gly	Ile	Lys	Gly	Thr	Lys	Gly	Ser	Pro	Gly	Asn	Ile	Lys	Asp	Gln
			100					105					110		
Pro	Arg	Pro	Ala	Phe	Ser	Ala	Ile	Arg	Arg	Asn	Pro	Pro	Met	Gly	Gly
		115					120					125			
Asn	Val	Val	Ile	Phe	Asp	Thr	Val	Ile	Thr	Asn	Gln	Glu	Glu	Pro	Tyr
	130					135					140				
Gln	Asn	His	Ser	Gly	Arg	Phe	Val	Cys	Thr	Val	Pro	Gly	Tyr	Tyr	Tyr
145					150				155						160
Phe	Thr	Phe	Gln	Val	Leu	Ser	Gln	Trp	Glu	Ile	Cys	Leu	Ser	Ile	Val
			165						170					175	
Ser	Ser	Ser	Arg	Gly	Gln	Val	Arg	Arg	Ser	Leu	Gly	Phe	Cys	Asp	Thr
			180					185					190		
Thr	Asn	Lys	Gly	Leu	Phe	Gln	Val	Val	Ser	Gly	Gly	Met	Val	Leu	Gln
	195						200					205			
Leu	Gln	Gln	Gly	Asp	Gln	Val	Trp	Val	Glu	Lys	Asp	Pro	Lys	Lys	Gly
	210					215					220				
His	Ile	Tyr	Gln	Gly	Ser	Glu	Ala	Asp	Ser	Val	Phe	Ser	Gly	Phe	Leu
225					230					235					240
Ile	Phe	Pro	Ser	Ala											
				245											

<210> 2206  
 <211> 245  
 <212> PRT  
 <213> Homo sapiens

<400> 2206															
Met	Glu	Gly	Pro	Arg	Gly	Trp	Leu	Val	Leu	Cys	Val	Leu	Ala	Ile	Ser
1				5					10					15	
Leu	Ala	Ser	Met	Val	Thr	Glu	Asp	Leu	Cys	Arg	Ala	Pro	Asp	Gly	Lys
			20					25					30		
Lys	Gly	Glu	Ala	Gly	Arg	Pro	Gly	Arg	Arg	Gly	Arg	Pro	Gly	Leu	Lys
		35					40					45			
Gly	Glu	Gln	Gly	Glu	Pro	Gly	Ala	Pro	Gly	Ile	Arg	Thr	Gly	Ile	Gln
	50					55					60				
Gly	Leu	Lys	Gly	Asp	Gln	Gly	Glu	Pro	Gly	Pro	Ser	Gly	Asn	Pro	Gly
65					70				75						80
Lys	Val	Gly	Tyr	Pro	Gly	Pro	Ser	Gly	Pro	Leu	Gly	Ala	Arg	Gly	Ile
				85					90					95	



Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln  
 100 105 110  
 Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly  
 115 120 125  
 Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr  
 130 135 140  
 Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr  
 145 150 155 160  
 Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val  
 165 170 175  
 Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr  
 180 185 190  
 Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln  
 195 200 205  
 Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly  
 210 215 220  
 His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu  
 225 230 235 240  
 Ile Phe Pro Ser Ala  
 245

<210> 2207  
 <211> 229  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2207  
 Met Glu Gly Pro Arg Gly Trp Leu Val Leu Cys Val Leu Ala Ile Ser  
 1 5 10 15  
 Leu Ala Ser Met Val Thr Glu Asp Leu Cys Arg Ala Pro Asp Gly Lys  
 20 25 30  
 Lys Gly Glu Ala Gly Arg Pro Gly Arg Arg Gly Arg Pro Gly Xaa Lys  
 35 40 45

Xaa Leu Lys Gly Asp Gln Gly Glu Pro Gly Pro Ser Gly Asn Pro Gly  
50 55 60  
Lys Val Gly Tyr Pro Gly Pro Ser Gly Pro Leu Gly Ala Arg Gly Ile  
65 70 75 80  
Pro Gly Ile Lys Gly Thr Lys Gly Ser Pro Gly Asn Ile Lys Asp Gln  
85 90 95  
Pro Arg Pro Ala Phe Ser Ala Ile Arg Arg Asn Pro Pro Met Gly Gly  
100 105 110  
Asn Val Val Ile Phe Asp Thr Val Ile Thr Asn Gln Glu Glu Pro Tyr  
115 120 125  
Gln Asn His Ser Gly Arg Phe Val Cys Thr Val Pro Gly Tyr Tyr Tyr  
130 135 140  
Phe Thr Phe Gln Val Leu Ser Gln Trp Glu Ile Cys Leu Ser Ile Val  
145 150 155 160  
Ser Ser Ser Arg Gly Gln Val Arg Arg Ser Leu Gly Phe Cys Asp Thr  
165 170 175  
Thr Asn Lys Gly Leu Phe Gln Val Val Ser Gly Gly Met Val Leu Gln  
180 185 190  
Leu Gln Gln Gly Asp Gln Val Trp Val Glu Lys Asp Pro Lys Lys Gly  
195 200 205  
His Ile Tyr Gln Gly Ser Glu Ala Asp Ser Val Phe Ser Gly Phe Leu  
210 215 220  
Ile Phe Pro Ser Ala  
225

<210> 2208  
<211> 207  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (75)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (77)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (112)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2208

Met Asp Val Gly Pro Ser Ser Leu Pro His Leu Gly Leu Lys Leu Leu  
1 5 10 15

Leu Leu Leu Leu Leu Leu Pro Leu Arg Gly Gln Ala Asn Thr Gly Cys  
20 25 30

Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp  
35 40 45

Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Pro Ala  
50 55 60

Ile Pro Gly Ile Arg Gly Pro Lys Gly Gln Xaa Gly Xaa Ala Glu Ile  
65 70 75 80

Pro Val Ser Val His Gly His Ser Ala Asp Pro Pro Ala Pro Cys Thr  
85 90 95

Gln Gln Pro Asp Gln Ile Gln Arg Gly Pro His Gln Pro Ala Glu Xaa  
100 105 110

Tyr Asp Thr Ser Thr Gly Lys Phe Thr Cys Lys Val Pro Gly Leu Tyr  
115 120 125

Tyr Phe Val Tyr His Ala Ser His Thr Ala Asn Leu Cys Val Leu Leu  
130 135 140

Tyr Arg Ser Gly Val Lys Val Val Thr Phe Cys Gly His Thr Ser Lys  
145 150 155 160

Thr Asn Gln Val Asn Ser Gly Gly Val Leu Leu Arg Leu Gln Val Gly  
165 170 175

Glu Glu Val Trp Leu Ala Val Asn Asp Tyr Tyr Asp Met Val Gly Ile  
180 185 190

Gln Gly Ser Asp Ser Val Phe Ser Gly Phe Leu Leu Phe Pro Asp  
195 200 205

<210> 2209

<211> 235

<212> PRT

<213> Homo sapiens

<400> 2209

Met Asp Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp  
1 5 10 15

Leu Arg Gly Ala Arg Cys Asp Met Gln Met Thr Gln Ser Pro Ser Ser  
20 25 30

Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Thr Ser  
35 40 45

Gln	Ser	Ile	Gly	Lys	Phe	Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln
50						55					60				
Ala	Pro	Lys	Leu	Leu	Ile	Ser	Gly	Ala	Ser	Ile	Leu	Gln	Thr	Gly	Val
65					70					75					80
Pro	Ser	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Ala	Thr	Tyr	Phe	Thr	Leu	Thr
				85					90					95	
Ile	Asn	Asp	Leu	His	Pro	Glu	Asp	Ser	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln
			100					105					110		
Asp	Tyr	Thr	Thr	Pro	Leu	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys
		115					120					125			
Arg	Thr	Val	Ala	Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro	Pro	Ser	Asp	Glu
		130				135					140				
Gln	Leu	Lys	Ser	Gly	Thr	Ala	Ser	Val	Val	Cys	Leu	Leu	Asn	Asn	Phe
145					150					155					160
Tyr	Pro	Arg	Glu	Ala	Lys	Val	Gln	Trp	Lys	Val	Asp	Asn	Ala	Leu	Gln
			165						170					175	
Ser	Gly	Asn	Ser	Gln	Glu	Ser	Val	Thr	Glu	Gln	Asp	Ser	Lys	Asp	Ser
			180					185					190		
Thr	Tyr	Ser	Leu	Ser	Ser	Thr	Leu	Thr	Leu	Ser	Lys	Ala	Asp	Tyr	Glu
		195					200					205			
Lys	His	Lys	Val	Tyr	Ala	Cys	Glu	Val	Thr	His	Gln	Gly	Leu	Ser	Ser
	210					215					220				
Pro	Val	Thr	Lys	Ser	Phe	Asn	Arg	Gly	Glu	Cys					
225					230					235					

<210> 2210  
 <211> 234  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (120)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2210  
 Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp Leu Ser  
 1 5 10 15  
 Gly Ala Arg Cys Asp Ile Gln Leu Thr Gln Ser Pro Ser Ser Leu Ser  
 20 25 30  
 Ala Ser Leu Gly Asp Ser Val Thr Ile Thr Cys Gln Ala Ser Gln Asp



Ile	Pro	Gly	Ile	Arg	Gly	Pro	Lys	Gly	Arg	Tyr	Lys	Gln	Lys	Phe	Gln
65					70					75					80
Ser	Val	Phe	Thr	Val	Thr	Arg	Gln	Thr	His	Gln	Pro	Pro	Ala	Pro	Asn
				85					90					95	
Ser	Leu	Ile	Arg	Phe	Asn	Ala	Val	Leu	Thr	Asn	Pro	Gln	Gly	Asp	Tyr
			100					105					110		
Asp	Thr	Ser	Thr	Gly	Lys	Phe	Thr	Cys	Lys	Val	Pro	Gly	Leu	Tyr	Tyr
		115					120					125			
Phe	Val	Tyr	His	Ala	Ser	His	Thr	Ala	Asn	Leu	Cys	Val	Leu	Leu	Tyr
	130					135					140				
Arg	Ser	Gly	Val	Lys	Val	Val	Thr	Phe	Cys	Gly	His	Thr	Ser	Lys	Thr
145					150					155					160
Asn	Gln	Val	Asn	Ser	Gly	Gly	Val	Leu	Leu	Arg	Leu	Gln	Val	Gly	Glu
			165					170						175	
Glu	Val	Trp	Leu	Ala	Val	Asn	Asp	Tyr	Tyr	Asp	Met	Val	Gly	Ile	Gln
			180					185					190		
Gly	Ser	Asp	Ser	Val	Phe	Ser	Gly	Phe	Leu	Leu	Phe	Pro	Asp		
		195					200					205			

<210> 2212  
 <211> 208  
 <212> PRT  
 <213> Homo sapiens

<400> 2212															
Met	Asp	Val	Gly	Pro	Ser	Ser	Leu	Pro	His	Leu	Gly	Leu	Lys	Leu	Leu
1				5					10					15	
Leu	Leu	Leu	Leu	Leu	Leu	Pro	Leu	Arg	Gly	Gln	Ala	Asn	Thr	Gly	Cys
			20					25					30		
Tyr	Gly	Ile	Pro	Gly	Met	Pro	Gly	Leu	Pro	Gly	Ala	Pro	Gly	Lys	Asp
		35					40					45			
Gly	Tyr	Asp	Gly	Leu	Pro	Gly	Pro	Lys	Gly	Glu	Pro	Gly	Ile	Pro	Ala
	50					55					60				
Ile	Pro	Gly	Ile	Arg	Gly	Pro	Lys	Gly	Gln	Lys	Gly	Glu	Pro	Gly	Leu
65					70					75					80
Pro	Gly	His	Pro	Gly	Lys	Asn	Gly	Pro	Met	Gly	Pro	Pro	Gly	Met	Pro
				85					90					95	
Gly	Val	Pro	Gly	Pro	Met	Gly	Ile	Pro	Gly	Glu	Pro	Gly	Glu	Glu	Gly
		100						105					110		

Arg	Tyr	Lys	Gln	Lys	Phe	Gln	Ser	Val	Phe	Thr	Val	Thr	Arg	Gln	Thr
		115					120					125			
His	Gln	Pro	Pro	Ala	Pro	Asn	Ser	Leu	Ile	Arg	Phe	Asn	Ala	Val	Leu
	130					135					140				
Thr	Asn	Pro	Gln	Glu	Ile	Met	Thr	Arg	Ala	Leu	Ala	Ser	Ser	Pro	Ala
145					150					155					160
Lys	Ser	Pro	Ala	Ser	Thr	Thr	Leu	Ser	Thr	Thr	Arg	Arg	Ile	Gln	Pro
				165					170					175	
Thr	Cys	Ala	Cys	Cys	Cys	Thr	Ala	Ala	Ala	Ser	Lys	Trp	Ser	Pro	Ser
			180					185					190		
Val	Ala	Thr	Arg	Pro	Lys	Pro	Ile	Arg	Ser	Thr	Arg	Ala	Val	Cys	Cys
		195					200					205			

<210> 2213  
 <211> 263  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2213  
 Met Cys Leu Leu Gly Gly Leu Ser Ala Pro Pro Leu Leu Leu Leu Pro  
 1 5 10 15  
 Leu Leu Pro Leu Leu Leu Cys Pro Pro Thr Xaa Gln Gly Asp Cys Ser  
 20 25 30  
 Phe Pro Pro Glu Leu Pro Asn Ala Ile Gln Ser Val Gly Asp Gln Gln  
 35 40 45  
 Ser Phe Pro Glu Lys Phe Thr Val Thr Tyr Lys Cys Lys Glu Gly Phe  
 50 55 60  
 Val Lys Val Pro Gly Lys Ala Asp Ser Val Val Cys Leu Asn Asn Lys  
 65 70 75 80  
 Trp Ser Glu Val Ala Glu Phe Cys Asn Arg Ser Cys Asp Val Pro Thr  
 85 90 95



Arg	Leu	Gln	Phe	Ala	Ser	Leu	Lys	Lys	Ser	Phe	Thr	Lys	Gln	Asn	Xaa
		100					105						110		
Phe	Pro	Val	Gly	Ser	Val	Val	Glu	Tyr	Glu	Cys	Arg	Pro	Gly	Tyr	Gln
		115					120					125			
Arg	Asp	His	Leu	Leu	Ser	Gly	Lys	Leu	Thr	Cys	Leu	Leu	Asn	Phe	Thr
	130					135					140				
Trp	Ser	Lys	Pro	Asp	Glu	Phe	Cys	Lys	Arg	Lys	Ser	Cys	Pro	Asn	Pro
145					150					155					160
Gly	Asp	Leu	Arg	His	Gly	His	Val	Asn	Ile	Pro	Thr	Asp	Ile	Leu	Tyr
				165					170					175	
Ala	Ala	Val	Ile	His	Phe	Ser	Cys	Asn	Lys	Gly	Tyr	Arg	Leu	Val	Gly
			180					185					190		
Ala	Ala	Ser	Ser	Tyr	Cys	Ser	Ile	Val	Asn	Asp	Asp	Val	Gly	Trp	Ser
		195					200					205			
Asp	Pro	Leu	Pro	Glu	Cys	Gln	Glu	Ile	Phe	Cys	Pro	Glu	Pro	Pro	Lys
	210					215					220				
Ile	Ser	Asn	Gly	Val	Ile	Leu	Asp	Gln	Gln	Asn	Thr	Tyr	Val	Tyr	Gln
225					230					235					240
Gln	Ala	Val	Lys	Tyr	Glu	Cys	Ile	Lys	Gly	Phe	Thr	Leu	Ile	Gly	Glu
			245						250					255	
Asn	Ser	Asp	Leu	Leu	Tyr	Cys									
			260												

<210> 2214  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 2214  
 Met Cys Leu Leu Gly Gly Leu Ser Ala Pro Pro Leu Leu Leu Leu Pro  
 1 5 10 15  
 Leu Leu Pro Leu Leu Leu Cys Pro Pro Thr Gly Arg Val Thr Ala Ala  
 20 25 30  
 Phe Pro Gln Ser Tyr Leu Met Pro Tyr Lys Val Trp Val Thr Asn Arg  
 35 40 45  
 Val Phe Leu Lys Asn Ser Gln  
 50 55

<210> 2215  
 <211> 350



<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (3)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2215

Met	Ala	Xaa	Xaa	Val	Val	Leu	Leu	Ala	Leu	Val	Ala	Gly	Val	Leu	Gly
1				5					10					15	

Asn	Glu	Phe	Ser	Ile	Leu	Lys	Ser	Pro	Gly	Ser	Val	Val	Phe	Arg	Asn
			20					25					30		

Gly	Asn	Trp	Pro	Ile	Pro	Gly	Glu	Arg	Ile	Pro	Asp	Val	Ala	Ala	Leu
		35					40					45			

Ser	Met	Gly	Phe	Ser	Val	Lys	Glu	Asp	Leu	Ser	Trp	Pro	Gly	Leu	Ala
	50					55					60				

Val	Gly	Asn	Leu	Phe	His	Arg	Pro	Arg	Ala	Thr	Val	Met	Val	Met	Val
65					70					75					80

Lys	Gly	Val	Asn	Lys	Leu	Ala	Leu	Pro	Pro	Gly	Ser	Val	Ile	Ser	Tyr
				85					90					95	

Pro	Leu	Glu	Asn	Ala	Val	Pro	Phe	Ser	Leu	Asp	Ser	Val	Ala	Asn	Ser
			100					105					110		

Ile	His	Ser	Leu	Phe	Ser	Glu	Glu	Thr	Pro	Val	Val	Leu	Gln	Leu	Ala
		115					120					125			

Pro	Ser	Glu	Glu	Arg	Val	Tyr	Met	Val	Gly	Lys	Ala	Asn	Ser	Val	Phe
	130					135					140				

Glu	Asp	Leu	Ser	Val	Thr	Leu	Arg	Gln	Leu	Arg	Asn	Arg	Leu	Phe	Gln
145					150					155					160

Glu	Asn	Ser	Val	Leu	Ser	Ser	Leu	Pro	Leu	Asn	Ser	Leu	Ser	Arg	Asn
				165					170					175	

Asn	Glu	Val	Asp	Leu	Leu	Phe	Leu	Ser	Glu	Leu	Gln	Val	Leu	His	Asp
			180					185					190		

Ile	Ser	Ser	Leu	Leu	Ser	Arg	His	Lys	His	Leu	Ala	Lys	Asp	His	Ser
		195					200					205			

Pro	Asp	Leu	Tyr	Ser	Leu	Glu	Leu	Ala	Gly	Leu	Asp	Glu	Ile	Gly	Lys
	210					215					220				

Arg	Tyr	Gly	Glu	Asp	Ser	Glu	Gln	Phe	Arg	Asp	Ala	Ser	Lys	Ile	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

225		230		235		240									
Val	Asp	Ala	Leu	Gln	Lys	Phe	Ala	Asp	Asp	Met	Tyr	Ser	Leu	Tyr	Gly
			245					250						255	
Gly	Asn	Ala	Val	Val	Glu	Leu	Val	Thr	Val	Lys	Ser	Phe	Asp	Thr	Ser
		260						265					270		
Leu	Ile	Arg	Lys	Thr	Arg	Thr	Ile	Leu	Glu	Ala	Lys	Gln	Ala	Lys	Asn
		275					280					285			
Pro	Ala	Ser	Pro	Tyr	Asn	Leu	Ala	Tyr	Lys	Tyr	Asn	Phe	Glu	Tyr	Ser
	290					295					300				
Val	Val	Phe	Asn	Met	Val	Leu	Trp	Ile	Met	Ile	Ala	Leu	Ala	Leu	Ala
305					310				315						320
Val	Ile	Ile	Thr	Ser	Tyr	Asn	Ile	Trp	Asn	Met	Asp	Pro	Gly	Tyr	Asp
			325					330						335	
Ser	Ile	Ile	Tyr	Arg	Met	Thr	Asn	Gln	Lys	Ile	Arg	Met	Asp		
		340						345					350		

<210> 2216  
 <211> 350  
 <212> PRT  
 <213> Homo sapiens

<400> 2216
Met Ala Val Phe Val Val Leu Leu Ala Leu Val Ala Gly Val Leu Gly
1 5 10 15
Asn Glu Phe Ser Ile Leu Lys Ser Pro Gly Ser Val Val Phe Arg Asn
20 25 30
Gly Asn Trp Pro Ile Pro Gly Glu Arg Ile Pro Asp Val Ala Ala Leu
35 40 45
Ser Met Gly Phe Ser Val Lys Glu Asp Leu Ser Trp Pro Gly Leu Ala
50 55 60
Val Gly Asn Leu Phe His Arg Pro Arg Ala Thr Val Met Val Met Val
65 70 75 80
Lys Gly Val Asn Lys Leu Ala Leu Pro Pro Gly Ser Val Ile Ser Tyr
85 90 95
Pro Leu Glu Asn Ala Val Pro Phe Ser Leu Asp Ser Val Ala Asn Ser
100 105 110
Ile His Ser Leu Phe Ser Glu Glu Thr Pro Val Val Leu Gln Leu Ala
115 120 125
Pro Ser Glu Glu Arg Val Tyr Met Val Gly Lys Ala Asn Ser Val Phe
130 135 140

Glu	Asp	Leu	Ser	Val	Thr	Leu	Arg	Gln	Leu	Arg	Asn	Arg	Leu	Phe	Gln	145	150	155	160
Glu	Asn	Ser	Val	Leu	Ser	Ser	Leu	Pro	Leu	Asn	Ser	Leu	Ser	Arg	Asn	165	170	175	
Asn	Glu	Val	Asp	Leu	Leu	Phe	Leu	Ser	Glu	Leu	Gln	Val	Leu	His	Asp	180	185	190	
Ile	Ser	Ser	Leu	Leu	Ser	Arg	His	Lys	His	Leu	Ala	Lys	Asp	His	Ser	195	200	205	
Pro	Asp	Leu	Tyr	Ser	Leu	Glu	Leu	Ala	Gly	Leu	Asp	Glu	Ile	Gly	Lys	210	215	220	
Arg	Tyr	Gly	Glu	Asp	Ser	Glu	Gln	Phe	Arg	Asp	Ala	Ser	Lys	Ile	Leu	225	230	235	240
Val	Asp	Ala	Leu	Gln	Lys	Phe	Ala	Asp	Asp	Met	Tyr	Ser	Leu	Tyr	Gly	245	250	255	
Gly	Asn	Ala	Val	Val	Glu	Leu	Val	Thr	Val	Lys	Ser	Phe	Asp	Thr	Ser	260	265	270	
Leu	Ile	Arg	Lys	Thr	Arg	Thr	Ile	Leu	Glu	Ala	Lys	Gln	Ala	Lys	Asn	275	280	285	
Pro	Ala	Ser	Pro	Tyr	Asn	Leu	Ala	Tyr	Lys	Tyr	Asn	Phe	Glu	Tyr	Ser	290	295	300	
Val	Val	Phe	Asn	Met	Val	Leu	Trp	Ile	Met	Ile	Ala	Leu	Ala	Leu	Ala	305	310	315	320
Val	Ile	Ile	Thr	Ser	Tyr	Asn	Ile	Trp	Asn	Met	Asp	Pro	Gly	Tyr	Asp	325	330	335	
Ser	Ile	Ile	Tyr	Arg	Met	Thr	Asn	Gln	Lys	Ile	Arg	Met	Asp	340	345	350			

<210> 2217

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2217

Met	Cys	Ser	Leu	Phe	His	Ala	Phe	Ile	Phe	Ala	Gln	Leu	Trp	Thr	Val
1				5				10						15	
Tyr	Cys	Glu	Gln	Ser	Ala	Val	Ala	Thr	Asn	Leu	Gln	Asn	Gln	Asn	Glu
		20						25				30			
Phe	Ser	Phe	Thr	Ala	Ile	Leu	Thr	Ala	Leu	Glu	Phe	Trp	Ser	Arg	Val
		35					40					45			
Thr	Pro	Ser	Ile	Leu	Gln	Leu	Met	Ala	His	Asn	Lys	Xaa	Met	Val	Glu
	50					55					60				
Met	Val	Cys	Leu	His	Val	Ile	Ser	Leu	Met	Glu	Ala	Leu	Gln	Xaa	Cys
65					70					75					80
Asn	Ser	Thr	Ile	Phe	Val	Lys	Leu	Ile	Pro	Met	Trp	Leu	Pro	Met	Ile
				85					90					95	
Gln	Ser	Asn	Ile	Lys	His	Leu	Ser	Ala	Gly	Leu	Gln	Leu	Arg	Leu	Gln
		100						105					110		
Ala	Ile	Gln	Asn	His	Val	Asn	His	His	Ser	Leu	Arg	Thr	Leu	Pro	Gly
		115					120					125			
Ser	Gly	Gln	Ser	Ser	Ala	Gly	Leu	Ala	Ala	Leu	Arg	Lys	Trp	Leu	Gln
	130					135					140				
Cys	Thr	Gln	Phe	Lys	Met	Ala	Gln	Val	Glu	Ile	Gln	Ser	Ser	Glu	Ala
145					150					155					160
Ala	Ser	Gln	Phe	Tyr	Pro	Leu									
				165											

<210> 2218

<211> 110

<212> PRT

<213> Homo sapiens

<400> 2218

Met	Glu	Phe	Pro	Gly	Ala	Asp	Gly	Cys	Asn	Gln	Val	Asp	Ala	Glu	Tyr
1				5				10						15	
Leu	Lys	Val	Gly	Ser	Glu	Gly	His	Phe	Arg	Val	Pro	Ala	Leu	Gly	Tyr
		20						25					30		
Leu	Asp	Val	Arg	Ile	Val	Asp	Thr	Asp	Tyr	Ser	Ser	Phe	Ala	Val	Leu
		35					40					45			
Tyr	Ile	Tyr	Lys	Glu	Leu	Glu	Gly	Ala	Leu	Ser	Thr	Met	Val	Gln	Leu
	50					55					60				
Tyr	Ser	Arg	Thr	Gln	Asp	Val	Ser	Pro	Gln	Ala	Leu	Lys	Ala	Phe	Gln
65					70					75					80

Asp Phe Tyr Pro Thr Leu Gly Leu Pro Glu Asp Met Met Val Met Leu  
85 90 95

Pro Gln Ser Asp Ala Cys Asn Pro Glu Ser Lys Glu Ala Pro  
100 105 110

<210> 2219  
<211> 115  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (101)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (106)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2219  
Ile Ser Leu Leu Trp Asn Leu Trp Gln Ser Val Lys Ile Gly Cys Gly  
1 5 10 15

Glu Lys Leu Tyr Pro Gly His Thr Lys Asp Ser Arg Asn His Leu Gly  
20 25 30

Gln Asn Leu Ser Phe Leu His Phe Ile Tyr Leu Phe Pro Pro Pro His  
35 40 45

Ser Thr His Thr Leu Pro Thr Ser Ser Thr Ser Thr Phe Lys His Lys  
50 55 60

Asp Val Arg Val Phe Ser Leu Ser Val Ser Trp Arg Thr Gly Cys Trp  
65 70 75 80

Glu Arg Lys Gly Gln Met Ser Lys Gly Gly Cys Arg Ala Gly Gln Ala  
85 90 95

Asp Ser Gly Gly Xaa Leu Glu Glu Leu Xaa Pro Ser Gln Thr Trp Val  
100 105 110

Ser Lys Thr  
115

<210> 2220  
<211> 262  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE

<223> Xaa equals any of the naturally occurring L-amino acids

Met Glu Cys Cys Arg Arg Ala Thr Pro Gly Thr Leu Leu Leu Phe Leu  
1 5 10 15

Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp Ser Glu Cys Ser Arg Thr  
35 40 45

Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg Thr Cys Ser Asn Val Asp  
65 70 75 80

Asn Asp Val Lys His His Gly Gln Phe Tyr Glu Trp Leu Pro Val Ser  
100 105 110

Thr Leu Val Val Glu Leu Ala Pro Lys Val Leu Asp Gly Thr Arg Cys  
130 135 140

Gly Cys Asp His Gln Leu Gly Ser Thr Val Lys Glu Asp Asn Cys Gly  
165 170 175

Lys Ser Gln Leu Ser Ala Thr Lys Ser Asp Asp Thr Val Val Ala Ile  
195 200 205

Leu Tyr Leu Glu Thr Lys Thr Leu Gln Gly Thr Lys Gly Glu Asn Ser  
225 230 235 240

Arg Asn Phe Gln Thr Lys  
260

<210> 2221  
<211> 514  
<212> PRT  
<213> Homo sapiens

<400> 2221

Glu	Leu	Cys	Arg	Gln	Pro	Lys	Pro	Ser	Thr	Val	Gln	Ala	Cys	Asn	Arg	
1				5					10					15		
Phe	Asn	Cys	Pro	Pro	Ala	Trp	Tyr	Pro	Ala	Gln	Trp	Gln	Pro	Cys	Ser	
			20					25					30			
Arg	Thr	Cys	Gly	Gly	Gly	Val	Gln	Lys	Arg	Glu	Val	Leu	Cys	Lys	Gln	
			35				40					45				
Arg	Met	Ala	Asp	Gly	Ser	Phe	Leu	Glu	Leu	Pro	Glu	Thr	Phe	Cys	Ser	
	50					55					60					
Ala	Ser	Lys	Pro	Ala	Cys	Gln	Gln	Ala	Cys	Lys	Lys	Asp	Asp	Cys	Pro	
65					70				75						80	
Ser	Glu	Trp	Leu	Leu	Ser	Asp	Trp	Thr	Glu	Cys	Ser	Thr	Ser	Cys	Gly	
				85					90					95		
Glu	Gly	Thr	Gln	Thr	Arg	Ser	Ala	Ile	Cys	Arg	Lys	Met	Leu	Lys	Thr	
			100					105					110			
Gly	Leu	Ser	Thr	Val	Val	Asn	Ser	Thr	Leu	Cys	Pro	Pro	Leu	Pro	Phe	
		115					120					125				
Ser	Ser	Ser	Ile	Arg	Pro	Cys	Met	Leu	Ala	Thr	Cys	Ala	Arg	Pro	Gly	
	130					135					140					
Arg	Pro	Ser	Thr	Lys	His	Ser	Pro	His	Ile	Ala	Ala	Ala	Arg	Lys	Val	
145					150					155					160	
Tyr	Ile	Gln	Thr	Arg	Arg	Gln	Arg	Lys	Leu	His	Phe	Val	Val	Gly	Gly	
				165					170					175		
Phe	Ala	Tyr	Leu	Leu	Pro	Lys	Thr	Ala	Val	Val	Leu	Arg	Cys	Pro	Ala	
			180					185					190			
Arg	Arg	Val	Arg	Lys	Pro	Leu	Ile	Thr	Trp	Glu	Lys	Asp	Gly	Gln	His	
		195					200					205				
Leu	Ile	Ser	Ser	Thr	His	Val	Thr	Val	Ala	Pro	Phe	Gly	Tyr	Leu	Lys	
	210					215					220					
Ile	His	Arg	Leu	Lys	Pro	Ser	Asp	Ala	Gly	Val	Tyr	Thr	Cys	Ser	Ala	
225					230					235					240	
Gly	Pro	Ala	Arg	Glu	His	Phe	Val	Ile	Lys	Leu	Ile	Gly	Gly	Asn	Arg	
				245					250					255		
Lys	Leu	Val	Ala	Arg	Pro	Leu	Ser	Pro	Arg	Ser	Glu	Glu	Glu	Val	Leu	
			260					265						270		



Ala	Gly	Arg	Lys	Gly	Gly	Pro	Lys	Glu	Ala	Leu	Gln	Thr	His	Lys	His	
	275						280					285				
Gln	Asn	Gly	Ile	Phe	Ser	Asn	Gly	Ser	Lys	Ala	Glu	Lys	Arg	Gly	Leu	
	290					295					300					
Ala	Ala	Asn	Pro	Gly	Ser	Arg	Tyr	Asp	Asp	Leu	Val	Ser	Arg	Leu	Leu	
305					310					315					320	
Glu	Gln	Gly	Gly	Trp	Pro	Gly	Glu	Leu	Leu	Ala	Ser	Trp	Glu	Ala	Gln	
				325					330					335		
Asp	Ser	Ala	Glu	Arg	Asn	Thr	Thr	Ser	Glu	Glu	Asp	Pro	Gly	Ala	Glu	
			340					345					350			
Gln	Val	Leu	Leu	His	Leu	Pro	Phe	Thr	Met	Val	Thr	Glu	Gln	Arg	Arg	
		355					360					365				
Leu	Asp	Asp	Ile	Leu	Gly	Asn	Leu	Ser	Gln	Gln	Pro	Glu	Glu	Leu	Arg	
	370					375					380					
Asp	Leu	Tyr	Ser	Lys	His	Leu	Val	Ala	Gln	Leu	Ala	Gln	Glu	Ile	Phe	
385					390					395					400	
Arg	Ser	His	Leu	Glu	His	Gln	Asp	Thr	Leu	Leu	Lys	Pro	Ser	Glu	Arg	
				405					410					415		
Arg	Thr	Ser	Pro	Val	Thr	Leu	Ser	Pro	His	Lys	His	Val	Ser	Gly	Phe	
			420					425					430			
Ser	Ser	Ser	Leu	Arg	Thr	Ser	Ser	Thr	Gly	Asp	Ala	Gly	Gly	Gly	Ser	
		435					440					445				
Arg	Arg	Pro	His	Arg	Lys	Pro	Thr	Ile	Leu	Arg	Lys	Ile	Ser	Ala	Ala	
	450					455					460					
Gln	Gln	Leu	Ser	Ala	Ser	Glu	Val	Val	Thr	His	Leu	Gly	Gln	Thr	Val	
465					470					475					480	
Ala	Leu	Ala	Ser	Gly	Thr	Leu	Ser	Val	Phe	Cys	Thr	Val	Arg	Pro	Ser	
				485					490					495		
Ala	Thr	Gln	Gly	Leu	Pro	Ser	Ala	Gly	Pro	Gly	Met	Glu	Lys	Lys	Ser	
			500					505					510			

Val Gln

<210> 2222  
 <211> 1745  
 <212> PRT  
 <213> Homo sapiens

<400> 2222  
 Met Glu Cys Cys Arg Arg Ala Thr Pro Gly Thr Leu Leu Leu Phe Leu



1	5	10	15
Ala Phe Leu Leu Leu Ser Ser Arg Thr Ala Arg Ser Glu Glu Asp Arg	20	25	30
Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp Ser Glu Cys Ser Arg Thr	35	40	45
Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg Arg Cys Leu Ser Ser Lys	50	55	60
Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg Thr Cys Ser Asn Val Asp	65	70	75
Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala Gln Gln Cys Ser Ala His	85	90	95
Asn Asp Val Lys His His Gly Gln Phe Tyr Glu Trp Leu Pro Val Ser	100	105	110
Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys Cys Gln Ala Lys Gly Thr	115	120	125
Thr Leu Val Val Glu Leu Ala Pro Lys Val Leu Asp Gly Thr Arg Cys	130	135	140
Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser Gly Leu Cys Gln Ile Val	145	150	155
Gly Cys Asp His Gln Leu Gly Ser Thr Val Lys Glu Asp Asn Cys Gly	165	170	175
Val Cys Asn Gly Asp Gly Ser Thr Cys Arg Leu Val Arg Gly Gln Tyr	180	185	190
Lys Ser Gln Leu Ser Ala Thr Lys Ser Asp Asp Thr Val Val Ala Ile	195	200	205
Pro Tyr Gly Ser Arg His Ile Arg Leu Val Leu Lys Gly Pro Asp His	210	215	220
Leu Tyr Leu Glu Thr Lys Thr Leu Gln Gly Thr Lys Gly Glu Asn Ser	225	230	235
Leu Ser Ser Thr Gly Thr Phe Leu Val Asp Asn Ser Ser Val Asp Phe	245	250	255
Gln Lys Phe Pro Asp Lys Glu Ile Leu Arg Met Ala Gly Pro Leu Thr	260	265	270
Ala Asp Phe Ile Val Lys Ile Arg Asn Ser Gly Ser Ala Asp Ser Thr	275	280	285
Val Gln Phe Ile Phe Tyr Gln Pro Ile Ile His Arg Trp Arg Glu Thr	290	295	300
Asp Phe Phe Pro Cys Ser Ala Thr Cys Gly Gly Gly Tyr Gln Leu Thr			

305		310		315		320									
Ser	Ala	Glu	Cys	Tyr	Asp	Leu	Arg	Ser	Asn	Arg	Val	Val	Ala	Asp	Gln
			325						330					335	
Tyr	Cys	His	Tyr	Tyr	Pro	Glu	Asn	Ile	Lys	Pro	Lys	Pro	Lys	Leu	Gln
			340					345						350	
Glu	Cys	Asn	Leu	Asp	Pro	Cys	Pro	Ala	Arg	Trp	Glu	Ala	Thr	Pro	Trp
		355					360					365			
Thr	Ala	Cys	Ser	Ser	Ser	Cys	Gly	Gly	Gly	Ile	Gln	Ser	Arg	Ala	Val
	370					375					380				
Ser	Cys	Val	Glu	Glu	Asp	Ile	Gln	Gly	His	Val	Thr	Ser	Val	Glu	Glu
385					390					395				400	
Trp	Lys	Cys	Met	Tyr	Thr	Pro	Lys	Met	Pro	Ile	Ala	Gln	Pro	Cys	Asn
			405						410					415	
Ile	Phe	Asp	Cys	Pro	Lys	Trp	Leu	Ala	Gln	Glu	Trp	Ser	Pro	Cys	Thr
		420					425						430		
Val	Thr	Cys	Gly	Gln	Gly	Leu	Arg	Tyr	Arg	Val	Val	Leu	Cys	Ile	Asp
	435					440						445			
His	Arg	Gly	Met	His	Thr	Gly	Gly	Cys	Ser	Pro	Lys	Thr	Lys	Pro	His
	450					455					460				
Ile	Lys	Glu	Glu	Cys	Ile	Val	Pro	Thr	Pro	Cys	Tyr	Lys	Pro	Lys	Glu
465					470					475					480
Lys	Leu	Pro	Val	Glu	Ala	Lys	Leu	Pro	Trp	Phe	Lys	Gln	Ala	Gln	Glu
			485						490					495	
Leu	Glu	Glu	Gly	Ala	Ala	Val	Ser	Glu	Glu	Pro	Ser	Phe	Ile	Pro	Lys
			500					505					510		
Ala	Trp	Ser	Ala	Cys	Thr	Val	Thr	Cys	Gly	Val	Gly	Thr	Gln	Val	Arg
	515						520					525			
Ile	Val	Arg	Cys	Gln	Val	Leu	Leu	Ser	Phe	Ser	Gln	Ser	Val	Ala	Asp
	530					535					540				
Leu	Pro	Ile	Asp	Glu	Cys	Glu	Gly	Pro	Lys	Pro	Ala	Ser	Gln	Arg	Ala
545					550					555					560
Cys	Tyr	Ala	Gly	Pro	Cys	Ser	Gly	Glu	Ile	Pro	Glu	Phe	Asn	Pro	Asp
			565						570					575	
Glu	Thr	Asp	Gly	Leu	Phe	Gly	Gly	Leu	Gln	Asp	Phe	Asp	Glu	Leu	Tyr
		580						585					590		
Asp	Trp	Glu	Tyr	Glu	Gly	Phe	Thr	Lys	Cys	Ser	Glu	Ser	Cys	Gly	Gly
	595						600					605			
Gly	Val	Gln	Glu	Ala	Val	Val	Ser	Cys	Leu	Asn	Lys	Gln	Thr	Arg	Glu

610		615		620													
Pro	Ala	Glu	Glu	Asn	Leu	Cys	Val	Thr	Ser	Arg	Arg	Pro	Pro	Gln	Leu		
625					630					635					640		
Leu	Lys	Ser	Cys	Asn	Leu	Asp	Pro	Cys	Pro	Ala	Arg	Trp	Glu	Ile	Gly		
				645					650					655			
Lys	Trp	Ser	Pro	Cys	Ser	Leu	Thr	Cys	Gly	Val	Gly	Leu	Gln	Thr	Arg		
			660					665					670				
Asp	Val	Phe	Cys	Ser	His	Leu	Leu	Ser	Arg	Glu	Met	Asn	Glu	Thr	Val		
		675					680					685					
Ile	Leu	Ala	Asp	Glu	Leu	Cys	Arg	Gln	Pro	Lys	Pro	Ser	Thr	Val	Gln		
	690					695					700						
Ala	Cys	Asn	Arg	Phe	Asn	Cys	Pro	Pro	Ala	Trp	Tyr	Pro	Ala	Gln	Trp		
705					710					715					720		
Gln	Pro	Cys	Ser	Arg	Thr	Cys	Gly	Gly	Gly	Val	Gln	Lys	Arg	Glu	Val		
				725					730					735			
Leu	Cys	Lys	Gln	Arg	Met	Ala	Asp	Gly	Ser	Phe	Leu	Glu	Leu	Pro	Glu		
			740					745					750				
Thr	Phe	Cys	Ser	Ala	Ser	Lys	Pro	Ala	Cys	Gln	Gln	Ala	Cys	Lys	Lys		
		755					760					765					
Asp	Asp	Cys	Pro	Ser	Glu	Trp	Leu	Leu	Ser	Asp	Trp	Thr	Glu	Cys	Ser		
	770					775					780						
Thr	Ser	Cys	Gly	Glu	Gly	Thr	Gln	Thr	Arg	Ser	Ala	Ile	Cys	Arg	Lys		
785					790					795					800		
Met	Leu	Lys	Thr	Gly	Leu	Ser	Thr	Val	Val	Asn	Ser	Thr	Leu	Cys	Pro		
				805					810					815			
Pro	Leu	Pro	Phe	Ser	Ser	Ser	Ile	Arg	Pro	Cys	Met	Leu	Ala	Thr	Cys		
			820					825					830				
Ala	Arg	Pro	Gly	Arg	Pro	Ser	Thr	Lys	His	Ser	Pro	His	Ile	Ala	Ala		
		835					840					845					
Ala	Arg	Lys	Val	Tyr	Ile	Gln	Thr	Arg	Arg	Gln	Arg	Lys	Leu	His	Phe		
	850					855					860						
Val	Val	Gly	Gly	Phe	Ala	Tyr	Leu	Leu	Pro	Lys	Thr	Ala	Val	Val	Leu		
865					870					875					880		
Arg	Cys	Pro	Ala	Arg	Arg	Val	Arg	Lys	Pro	Leu	Ile	Thr	Trp	Glu	Lys		
				885					890					895			
Asp	Gly	Gln	His	Leu	Ile	Ser	Ser	Thr	His	Val	Thr	Val	Ala	Pro	Phe		
		900						905					910				
Gly	Tyr	Leu	Lys	Ile	His	Arg	Leu	Lys	Pro	Ser	Asp	Ala	Gly	Val	Tyr		

915	920	925
Thr Cys Ser Ala Gly Pro Ala Arg Glu His Phe Val Ile Lys Leu Ile 930 935 940		
Gly Gly Asn Arg Lys Leu Val Ala Arg Pro Leu Ser Pro Arg Ser Glu 945 950 955 960		
Glu Glu Val Leu Ala Gly Arg Lys Gly Gly Pro Lys Glu Ala Leu Gln 965 970 975		
Thr His Lys His Gln Asn Gly Ile Phe Ser Asn Gly Ser Lys Ala Glu 980 985 990		
Lys Arg Gly Leu Ala Ala Asn Pro Gly Ser Arg Tyr Asp Asp Leu Val 995 1000 1005		
Ser Arg Leu Leu Glu Gln Gly Gly Trp Pro Gly Glu Leu Leu Ala Ser 1010 1015 1020		
Trp Glu Ala Gln Asp Ser Ala Glu Arg Asn Thr Thr Ser Glu Glu Asp 1025 1030 1035 1040		
Pro Gly Ala Glu Gln Val Leu Leu His Leu Pro Phe Thr Met Val Thr 1045 1050 1055		
Glu Gln Arg Arg Leu Asp Asp Ile Leu Gly Asn Leu Ser Gln Gln Pro 1060 1065 1070		
Glu Glu Leu Arg Asp Leu Tyr Ser Lys His Leu Val Ala Gln Leu Ala 1075 1080 1085		
Gln Glu Ile Phe Arg Ser His Leu Glu His Gln Asp Thr Leu Leu Lys 1090 1095 1100		
Pro Ser Glu Arg Arg Thr Ser Pro Val Thr Leu Ser Pro His Lys His 1105 1110 1115 1120		
Val Ser Gly Phe Ser Ser Ser Leu Arg Thr Ser Ser Thr Gly Asp Ala 1125 1130 1135		
Gly Gly Gly Ser Arg Arg Pro His Arg Lys Pro Thr Ile Leu Arg Lys 1140 1145 1150		
Ile Ser Ala Ala Gln Gln Leu Ser Ala Ser Glu Val Val Thr His Leu 1155 1160 1165		
Gly Gln Thr Val Ala Leu Ala Ser Gly Thr Leu Ser Val Leu Leu His 1170 1175 1180		
Cys Glu Ala Ile Gly His Pro Arg Pro Thr Ile Ser Trp Ala Arg Asn 1185 1190 1195 1200		
Gly Glu Glu Val Gln Phe Ser Asp Arg Ile Leu Leu Gln Pro Asp Asp 1205 1210 1215		
Ser Leu Gln Ile Leu Ala Pro Val Glu Ala Asp Val Gly Phe Tyr Thr		

1220	1225	1230
Cys Asn Ala Thr Asn Ala Leu Gly Tyr Asp Ser Val Ser Ile Ala Val		
1235	1240	1245
Thr Leu Ala Gly Lys Pro Leu Val Lys Thr Ser Arg Met Thr Val Ile		
1250	1255	1260
Asn Thr Glu Lys Pro Ala Val Thr Val Asp Ile Gly Ser Thr Ile Lys		
1265	1270	1280
Thr Val Gln Gly Val Asn Val Thr Ile Asn Cys Gln Val Ala Gly Val		
1285	1290	1295
Pro Glu Ala Glu Val Thr Trp Phe Arg Asn Lys Ser Lys Leu Gly Ser		
1300	1305	1310
Pro His His Leu His Glu Gly Ser Leu Leu Leu Thr Asn Val Ser Ser		
1315	1320	1325
Ser Asp Gln Gly Leu Tyr Ser Cys Arg Ala Ala Asn Leu His Gly Glu		
1330	1335	1340
Leu Thr Glu Ser Thr Gln Leu Leu Ile Leu Asp Pro Pro Gln Val Pro		
1345	1350	1355
Thr Gln Leu Glu Asp Ile Arg Ala Leu Leu Ala Ala Thr Gly Pro Asn		
1365	1370	1375
Leu Pro Ser Val Leu Thr Ser Pro Leu Gly Thr Gln Leu Val Leu Asp		
1380	1385	1390
Pro Gly Asn Ser Ala Leu Leu Gly Cys Pro Ile Lys Gly His Pro Val		
1395	1400	1405
Pro Asn Ile Thr Trp Phe His Gly Gly Gln Pro Ile Val Thr Ala Thr		
1410	1415	1420
Gly Leu Thr His His Ile Leu Ala Ala Gly Gln Ile Leu Gln Val Ala		
1425	1430	1435
Asn Leu Ser Gly Gly Ser Gln Gly Glu Phe Ser Cys Leu Ala Gln Asn		
1445	1450	1455
Glu Ala Gly Val Leu Met Gln Lys Ala Ser Leu Val Ile Gln Asp Tyr		
1460	1465	1470
Trp Trp Ser Val Asp Arg Leu Ala Thr Cys Ser Ala Ser Cys Gly Asn		
1475	1480	1485
Arg Gly Val Gln Gln Pro Arg Leu Arg Cys Leu Leu Asn Ser Thr Glu		
1490	1495	1500
Val Asn Pro Ala His Cys Ala Gly Lys Val Arg Pro Ala Val Gln Pro		
1505	1510	1515
Ile Ala Cys Asn Arg Arg Asp Cys Pro Ser Arg Trp Met Val Thr Ser		

	1525		1530		1535
Trp Ser Ala Cys Thr Arg Ser Cys Gly Gly Gly Val Gln Thr Arg Arg	1540		1545		1550
Val Thr Cys Gln Lys Leu Lys Ala Ser Gly Ile Ser Thr Pro Val Ser	1555		1560		1565
Asn Asp Met Cys Thr Gln Val Ala Lys Arg Pro Val Asp Thr Gln Ala	1570		1575		1580
Cys Asn Gln Gln Leu Cys Val Glu Trp Ala Phe Ser Ser Trp Gly Gln	1585		1590		1595
Cys Asn Gly Pro Cys Ile Gly Pro His Leu Ala Val Gln His Arg Gln	1605		1610		1615
Val Phe Cys Gln Thr Arg Asp Gly Ile Thr Leu Pro Ser Glu Gln Cys	1620		1625		1630
Ser Ala Leu Pro Arg Pro Val Ser Thr Gln Asn Cys Trp Ser Glu Ala	1635		1640		1645
Cys Ser Val His Trp Arg Val Ser Leu Trp Thr Leu Cys Thr Ala Thr	1650		1655		1660
Cys Gly Asn Tyr Gly Phe Gln Ser Arg Arg Val Glu Cys Val His Ala	1665		1670		1675
Arg Thr Asn Lys Ala Val Pro Glu His Leu Cys Ser Trp Gly Pro Arg	1685		1690		1695
Pro Ala Asn Trp Gln Arg Cys Asn Ile Thr Pro Cys Glu Asn Met Glu	1700		1705		1710
Cys Arg Asp Thr Thr Arg Tyr Cys Glu Lys Val Lys Gln Leu Lys Leu	1715		1720		1725
Cys Gln Leu Ser Gln Phe Lys Ser Arg Cys Cys Gly Thr Cys Gly Lys	1730		1735		1740

Ala  
1745

<210> 2223  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 2223  
 Glu Cys Cys Glu Thr Ala Ala Pro Pro Gly Pro His Arg Arg Pro Glu  
 1 5 10 15

Ser Gly Gln



<210> 2224  
<211> 363  
<212> PRT  
<213> Homo sapiens

<400> 2224

Met	Ala	Ala	Val	Leu	Thr	Trp	Ala	Leu	Ala	Leu	Leu	Ser	Ala	Phe	Ser
1				5					10					15	
Ala	Thr	Gln	Ala	Arg	Lys	Gly	Phe	Trp	Asp	Tyr	Phe	Ser	Gln	Thr	Ser
			20					25					30		
Gly	Asp	Lys	Gly	Arg	Val	Glu	Gln	Ile	His	Gln	Gln	Lys	Met	Ala	Arg
		35					40					45			
Glu	Pro	Ala	Thr	Leu	Lys	Asp	Ser	Leu	Glu	Gln	Asp	Leu	Asn	Asn	Met
	50					55					60				
Asn	Lys	Phe	Leu	Glu	Lys	Leu	Arg	Pro	Leu	Ser	Gly	Ser	Glu	Ala	Pro
65					70					75					80
Arg	Leu	Pro	Gln	Asp	Pro	Val	Gly	Met	Arg	Arg	Gln	Leu	Gln	Glu	Glu
				85					90					95	
Leu	Glu	Glu	Val	Lys	Ala	Arg	Leu	Gln	Pro	Tyr	Met	Ala	Glu	Ala	His
			100					105					110		
Glu	Leu	Val	Gly	Trp	Asn	Leu	Glu	Gly	Leu	Arg	Gln	Gln	Leu	Lys	Pro
		115					120					125			
Tyr	Thr	Met	Asp	Leu	Met	Glu	Gln	Val	Ala	Leu	Arg	Val	Gln	Glu	Leu
	130					135					140				
Gln	Glu	Gln	Leu	Arg	Val	Val	Gly	Glu	Asp	Thr	Lys	Ala	Gln	Leu	Leu
145					150					155					160
Gly	Gly	Val	Asp	Glu	Ala	Trp	Ala	Leu	Leu	Gln	Gly	Leu	Gln	Ser	Arg
				165					170					175	
Val	Val	His	His	Thr	Gly	Arg	Phe	Lys	Glu	Leu	Phe	His	Pro	Tyr	Ala
			180					185					190		
Glu	Ser	Leu	Val	Ser	Gly	Ile	Gly	Arg	His	Val	Gln	Glu	Leu	His	Arg
		195					200					205			
Ser	Val	Ala	Pro	His	Ala	Pro	Ala	Ser	Pro	Ala	Arg	Leu	Ser	Arg	Cys
	210					215					220				
Val	Gln	Val	Leu	Ser	Arg	Lys	Leu	Thr	Leu	Lys	Ala	Lys	Ala	Leu	His
225					230					235					240
Ala	Arg	Ile	Gln	Gln	Asn	Leu	Asp	Gln	Leu	Arg	Glu	Glu	Leu	Ile	Arg
			245						250					255	

Ala	Phe	Ala	Gly	Thr	Gly	Thr	Glu	Glu	Gly	Ala	Gly	Pro	Asp	Pro	Gln			
			260					265					270					
Met	Leu	Ser	Glu	Glu	Val	Arg	Gln	Arg	Leu	Gln	Ala	Phe	Arg	Gln	Asp			
		275					280					285						
Thr	Tyr	Leu	Gln	Ile	Ala	Ala	Phe	Thr	Arg	Ala	Ile	Asp	Gln	Glu	Thr			
	290					295					300							
Glu	Glu	Val	Gln	Gln	Gln	Leu	Ala	Pro	Pro	Pro	Pro	Gly	His	Ser	Ala			
305					310					315					320			
Phe	Ala	Pro	Glu	Phe	Gln	Gln	Thr	Asp	Ser	Gly	Lys	Val	Leu	Ser	Lys			
				325					330					335				
Leu	Gln	Ala	Arg	Leu	Asp	Asp	Leu	Trp	Glu	Asp	Ile	Thr	His	Ser	Leu			
			340					345					350					
His	Asp	Gln	Gly	His	Ser	His	Leu	Gly	Asp	Pro								
		355					360											

<210> 2225  
 <211> 183  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (86)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (146)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2225  
 Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Leu Ser Leu  
   1                  5                  10                  15  
 Gln Leu Gly Gln Gly Trp Gly Pro Asp Ala Arg Gly Val Pro Val Ala  
           20                  25                  30  
 Asp Gly Glu Phe Ser Ser Glu Gln Val Ala Lys Ala Gly Gly Thr Trp  
   35                  40                  45  
 Leu Gly Lys Asp Phe Gln Gly Pro Ser Val Thr Ser Gln Leu Ser Pro  
   50                  55                  60  
 Ala Leu Thr Leu Leu Thr Val Ser Ala Leu Pro Ser His Arg His Pro  
   65                  70                  75                  80  
 Pro Pro Pro Cys Pro Xaa Ala Pro Ser Pro Val Trp Ser Met Pro Ala  
           85                  90                  95



Val Glu Pro Asp Pro Val Arg Gly Arg Ala Arg Pro Gly Leu Arg Leu  
 100 105 110  
 Ile Gly Glu Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys Pro Arg Gly  
 115 120 125  
 Ala Arg Thr Gln His Gly Leu Ala Leu Ala Arg Leu Gln Gly Gln Gly  
 130 135 140  
 Arg Xaa His Gly Gly Pro Cys Cys Arg Pro Thr Arg Tyr Thr Asp Val  
 145 150 155 160  
 Ala Phe Leu Asp Asp Arg His Ala Gly Ser Gly Cys Pro Ser Ser Arg  
 165 170 175  
 Arg Leu Cys Gly Cys Gly Gly  
 180

<210> 2226  
 <211> 252  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (86)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (116)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (135)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (146)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2226  
 Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Leu Ser Leu  
 1 5 10 15  
 Gln Leu Gly Gln Gly Trp Gly Pro Asp Ala Arg Gly Val Pro Val Ala  
 20 25 30  
 Asp Gly Glu Phe Ser Ser Glu Gln Val Ala Lys Ala Gly Gly Thr Trp  
 35 40 45  
 Leu Gly Lys Asp Phe Gln Gly Pro Ser Val Thr Ser Gln Leu Ser Pro  
 50 55 60

Ala	Leu	Thr	Leu	Leu	Thr	Val	Ser	Ala	Leu	Pro	Ser	His	Arg	His	Pro
65					70					75					80
Pro	Pro	Pro	Cys	Pro	Xaa	Ala	Pro	Ser	Pro	Val	Trp	Ser	Met	Pro	Ala
			85						90					95	
Val	Glu	Pro	Asp	Pro	Val	Arg	Gly	Arg	Ala	Arg	Pro	Gly	Leu	Arg	Leu
			100					105					110		
Ile	Gly	Glu	Xaa	His	Leu	Pro	Leu	Leu	Arg	Arg	Gln	Leu	Pro	Pro	Trp
		115					120					125			
Cys	Pro	His	Pro	Ala	Trp	Xaa	Gly	Ala	Gly	Pro	Ala	Ala	Gly	Pro	Gly
	130					135					140				
Pro	Xaa	Pro	Arg	Arg	Ala	Leu	Leu	Pro	Ala	His	Ser	Leu	His	Arg	Arg
145					150					155					160
Gly	Leu	Pro	Arg	Arg	Pro	Pro	Arg	Trp	Gln	Arg	Leu	Pro	Gln	Leu	Ser
				165					170					175	
Ala	Ala	Leu	Arg	Leu	Trp	Trp	Leu	Arg	Val	Pro	Gly	Leu	Ala	Pro	Arg
			180					185					190		
Ser	Cys	Ser	Ala	Gly	Gly	Ala	Arg	Leu	Thr	Tyr	Leu	Leu	Glu	Thr	Trp
		195					200					205			
Met	Gln	Arg	Gln	Arg	Gly	Gly	Glu	Trp	Ala	Gly	Ala	Thr	Ser	Ser	Glu
	210					215					220				
Cys	Asn	Lys	Gly	His	His	Ser	Pro	Gly	Lys	Lys	Lys	Lys	Lys	Lys	Lys
225					230					235					240
Lys	Lys	Lys	Lys	Lys	Leu	Glu	Gly	Gly	Ser	Arg	Tyr				
				245					250						

<210> 2227  
 <211> 150  
 <212> PRT  
 <213> Homo sapiens

<400> 2227  
 Met Val Met Ile Leu Phe Val Ala Phe Ile Thr Cys Trp Glu Glu Val  
 1 5 10 15  
 Thr Thr Leu Val Gln Ala Ile Arg Ile Thr Ser Tyr Met Asn Glu Thr  
 20 25 30  
 Ile Leu Tyr Phe Pro Phe Ser Ser His Ser Ser Tyr Thr Val Arg Ser  
 35 40 45  
 Lys Lys Ile Phe Leu Ser Lys Leu Ile Val Cys Phe Leu Ser Thr Trp  
 50 55 60

Leu Pro Phe Val Leu Leu Gln Val Ile Ile Val Leu Leu Lys Val Gln  
 65 70 75 80  
 Ile Pro Ala Tyr Ile Glu Met Asn Ile Pro Trp Leu Tyr Phe Val Asn  
 85 90 95  
 Ser Phe Leu Ile Ala Thr Val Tyr Trp Phe Asn Cys His Lys Leu Asn  
 100 105 110  
 Leu Lys Asp Ile Gly Leu Pro Leu Asp Pro Phe Val Asn Trp Lys Cys  
 115 120 125  
 Cys Phe Ile Pro Leu Thr Ile Pro Asn Leu Glu Gln Ile Glu Lys Pro  
 130 135 140  
 Ile Ser Ile Met Ile Cys  
 145 150

<210> 2228  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<400> 2228

Met Ile Pro Phe Pro Ala Cys Leu Leu Leu Ala Leu Phe Pro Lys Val  
 1 5 10 15  
 Gln Val Gly Arg Thr Thr Ser Ala Tyr Phe Ser Thr Ile Pro Ser Met  
 20 25 30  
 Pro Ala Arg Ser Gln Ile Asn Leu Pro Val Glu Ser Gly Ser Ala Leu  
 35 40 45  
 Leu Glu Pro Arg Gly Lys Gly Arg Val Glu Arg Val Cys Pro Val Ala  
 50 55 60  
 Trp Ser Ser Met Val Ala Ser Cys Leu Pro Ser Pro Ser Ser Gly Gly  
 65 70 75 80  
 Pro Glu Gly Ser Leu Gly Thr Val Pro Gln Ile Leu Thr Gln Gly Pro  
 85 90 95  
 Ala Trp Gly Arg Asp Gly Cys Arg Gln Asn Ala Leu Tyr Arg Asp Phe  
 100 105 110  
 Leu Leu Leu Gly Arg Cys Val Ser Pro Thr Ile Cys Leu  
 115 120 125

<210> 2229  
 <211> 766  
 <212> PRT  
 <213> Homo sapiens

<400> 2229

Met	Ile	Trp	Arg	Ser	Arg	Ala	Gly	Ala	Glu	Leu	Phe	Ser	Leu	Met	Ala
1				5					10					15	
Leu	Trp	Glu	Trp	Ile	Ala	Leu	Ser	Leu	His	Cys	Trp	Val	Leu	Ala	Val
		20						25					30		
Ala	Ala	Val	Ser	Asp	Gln	His	Ala	Thr	Ser	Pro	Phe	Asp	Trp	Leu	Leu
		35					40					45			
Ser	Asp	Lys	Gly	Pro	Phe	His	Arg	Ser	Gln	Glu	Tyr	Thr	Asp	Phe	Val
	50					55					60				
Asp	Arg	Ser	Arg	Gln	Gly	Phe	Ser	Thr	Arg	Tyr	Lys	Ile	Tyr	Arg	Glu
65					70					75					80
Phe	Gly	Arg	Trp	Lys	Val	Asn	Asn	Leu	Ala	Val	Glu	Arg	Arg	Asn	Phe
				85					90					95	
Leu	Gly	Ser	Pro	Leu	Pro	Leu	Ala	Pro	Glu	Phe	Phe	Arg	Asn	Ile	Arg
			100					105					110		
Leu	Leu	Gly	Arg	Arg	Pro	Thr	Leu	Gln	Gln	Ile	Thr	Glu	Asn	Leu	Ile
		115					120					125			
Lys	Lys	Tyr	Gly	Thr	His	Phe	Leu	Leu	Ser	Ala	Thr	Leu	Gly	Gly	Glu
	130					135					140				
Glu	Ser	Leu	Thr	Ile	Phe	Val	Asp	Lys	Arg	Lys	Leu	Ser	Lys	Arg	Ala
145					150					155					160
Glu	Gly	Ser	Asp	Ser	Thr	Thr	Asn	Ser	Ser	Ser	Val	Thr	Leu	Glu	Thr
				165					170					175	
Leu	His	Gln	Leu	Ala	Ala	Ser	Tyr	Phe	Ile	Asp	Arg	Asp	Ser	Thr	Leu
			180					185					190		
Arg	Arg	Leu	His	His	Ile	Gln	Ile	Ala	Ser	Thr	Ala	Ile	Lys	Val	Thr
		195					200						205		
Glu	Thr	Arg	Thr	Gly	Pro	Leu	Gly	Cys	Ser	Asn	Tyr	Asp	Asn	Leu	Asp
	210					215					220				
Ser	Val	Ser	Ser	Val	Leu	Val	Gln	Ser	Pro	Glu	Asn	Lys	Ile	Gln	Leu
225					230					235					240
Gln	Gly	Leu	Gln	Val	Leu	Leu	Pro	Asp	Tyr	Leu	Gln	Glu	Arg	Phe	Val
				245					250					255	
Gln	Ala	Ala	Leu	Ser	Tyr	Ile	Ala	Cys	Asn	Ser	Glu	Gly	Glu	Phe	Ile
			260					265					270		
Cys	Lys	Glu	Asn	Asp	Cys	Trp	Cys	His	Cys	Gly	Pro	Lys	Phe	Pro	Glu
		275					280					285			
Cys	Asn	Cys	Pro	Ser	Met	Asp	Ile	Gln	Ala	Met	Glu	Glu	Asn	Leu	Leu
	290					295				300					

Arg	Ile	Thr	Glu	Thr	Trp	Lys	Ala	Tyr	Asn	Ser	Asp	Phe	Glu	Glu	Ser	305	310	315	320
Asp	Glu	Phe	Lys	Leu	Phe	Met	Lys	Arg	Leu	Pro	Met	Asn	Tyr	Phe	Leu	325	330	335	
Asn	Thr	Ser	Thr	Ile	Met	His	Leu	Trp	Thr	Met	Asp	Ser	Asn	Phe	Gln	340	345	350	
Arg	Arg	Tyr	Glu	Gln	Leu	Glu	Asn	Ser	Met	Lys	Gln	Leu	Phe	Leu	Lys	355	360	365	
Ala	Gln	Lys	Ile	Val	His	Lys	Leu	Phe	Ser	Leu	Ser	Lys	Arg	Cys	His	370	375	380	
Lys	Gln	Pro	Leu	Ile	Ser	Leu	Pro	Arg	Gln	Arg	Thr	Ser	Thr	Tyr	Trp	385	390	395	400
Leu	Thr	Arg	Ile	Gln	Ser	Phe	Leu	Tyr	Cys	Asn	Glu	Asn	Gly	Leu	Leu	405	410	415	
Gly	Ser	Phe	Ser	Glu	Glu	Thr	His	Ser	Cys	Thr	Cys	Pro	Asn	Asp	Gln	420	425	430	
Val	Val	Cys	Thr	Ala	Phe	Leu	Pro	Cys	Thr	Val	Gly	Asp	Ala	Ser	Ala	435	440	445	
Cys	Leu	Thr	Cys	Ala	Pro	Asp	Asn	Arg	Thr	Arg	Cys	Gly	Thr	Cys	Asn	450	455	460	
Thr	Gly	Tyr	Met	Leu	Ser	Gln	Gly	Leu	Cys	Lys	Pro	Glu	Val	Ala	Glu	465	470	475	480
Ser	Thr	Asp	His	Tyr	Ile	Gly	Phe	Glu	Thr	Asp	Leu	Gln	Asp	Leu	Glu	485	490	495	
Met	Lys	Tyr	Leu	Leu	Gln	Lys	Thr	Asp	Arg	Arg	Ile	Glu	Val	His	Ala	500	505	510	
Ile	Phe	Ile	Ser	Asn	Asp	Met	Arg	Leu	Asn	Ser	Trp	Phe	Asp	Pro	Ser	515	520	525	
Trp	Arg	Lys	Arg	Met	Leu	Leu	Thr	Leu	Lys	Ser	Asn	Lys	Tyr	Lys	Ser	530	535	540	
Ser	Leu	Val	His	Met	Ile	Leu	Gly	Leu	Ser	Leu	Gln	Ile	Cys	Leu	Thr	545	550	555	560
Lys	Asn	Ser	Thr	Leu	Glu	Pro	Val	Leu	Ala	Val	Tyr	Val	Asn	Pro	Phe	565	570	575	
Gly	Gly	Ser	His	Ser	Glu	Ser	Trp	Phe	Met	Pro	Val	Asn	Glu	Asn	Ser	580	585	590	
Phe	Pro	Asp	Trp	Glu	Arg	Thr	Lys	Leu	Asp	Leu	Pro	Leu	Gln	Cys	Tyr	595	600	605	

Asn	Trp	Thr	Leu	Thr	Leu	Gly	Asn	Lys	Trp	Lys	Thr	Phe	Phe	Glu	Thr
610						615					620				
Val	His	Ile	Tyr	Leu	Arg	Ser	Arg	Ile	Lys	Ser	Asn	Gly	Pro	Asn	Gly
625					630					635					640
Asn	Glu	Ser	Ile	Tyr	Tyr	Glu	Pro	Leu	Glu	Phe	Ile	Asp	Pro	Ser	Arg
				645					650					655	
Asn	Leu	Gly	Tyr	Met	Lys	Ile	Asn	Asn	Ile	Gln	Val	Phe	Gly	Tyr	Ser
			660					665					670		
Met	His	Phe	Asp	Pro	Glu	Ala	Ile	Arg	Asp	Leu	Ile	Leu	Gln	Leu	Asp
		675						680				685			
Tyr	Pro	Tyr	Thr	Gln	Gly	Ser	Gln	Asp	Ser	Ala	Leu	Leu	Gln	Leu	Leu
	690					695					700				
Glu	Ile	Arg	Asp	Arg	Val	Asn	Lys	Leu	Ser	Pro	Pro	Gly	Gln	Arg	Arg
705					710					715					720
Leu	Asp	Leu	Phe	Ser	Cys	Leu	Leu	Arg	His	Arg	Leu	Lys	Leu	Ser	Thr
				725					730					735	
Ser	Glu	Val	Val	Arg	Ile	Gln	Ser	Ala	Leu	Gln	Ala	Phe	Asn	Ala	Lys
			740					745					750		
Leu	Pro	Asn	Thr	Met	Asp	Tyr	Asp	Thr	Thr	Lys	Leu	Cys	Ser		
		755					760					765			

<210> 2230  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 2230															
Met	Lys	Ser	Ala	Leu	His	Arg	Asp	Ile	Cys	Ile	Leu	Met	Leu	Thr	Ala
1				5					10					15	
Ala	Leu	Phe	Thr	Ile	Ala	Lys	Thr	Glu	Lys	Gln	His	Lys	Cys	Pro	Ser
			20					25					30		
Ile	Asp	Glu	Gln	Ile	Asn	Asn	Leu	Gln	Tyr	Ile	Cys	Thr	Met	Glu	Tyr
		35					40					45			
His	Ser	Ala	Leu	Gln	Lys	Glu	Met	Leu	Leu	Tyr	Leu	Gln			
		50				55					60				

<210> 2231  
 <211> 133  
 <212> PRT  
 <213> Homo sapiens

<400> 2231

Met Arg Met Ser Leu Ala Gln Arg Val Leu Leu Thr Trp Leu Phe Thr  
1 5 10 15

Leu Leu Phe Leu Ile Met Leu Val Leu Lys Leu Asp Glu Lys Ala Pro  
20 25 30

Trp Asn Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile  
35 40 45

Leu Leu Val Leu Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly  
50 55 60

Phe Asp Pro Arg His Gly Ser His Asn Ile Lys Lys Lys Ala Trp Tyr  
65 70 75 80

Leu Ile Ala Met Leu Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala  
85 90 95

Lys Leu Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro  
100 105 110

Leu Trp Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val  
115 120 125

Phe Phe Val Arg Asp  
130

<210> 2232

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2232

Met Ser Leu Ala Gln Arg Val Leu Leu Thr Trp Leu Phe Thr Leu Leu  
1 5 10 15

Phe Leu Ile Met Leu Val Leu Lys Leu Asp Glu Lys Ala Pro Trp Asn  
20 25 30

Trp Phe Leu Ile Phe Ile Pro Val Trp Ile Phe Asp Thr Ile Leu Leu  
35 40 45

Val Leu Leu Ile Val Lys Met Ala Gly Arg Cys Lys Ser Gly Phe Asp  
50 55 60

Pro Arg His Gly Ser His Asn Ile Lys Lys Lys Ala Trp Tyr Leu Ile  
65 70 75 80

Ala Met Leu Leu Lys Leu Ala Phe Cys Leu Ala Leu Cys Ala Lys Leu  
85 90 95

Glu Gln Phe Thr Thr Met Asn Leu Ser Tyr Val Phe Ile Pro Leu Trp  
100 105 110



Ala Leu Leu Ala Gly Ala Leu Thr Glu Leu Gly Tyr Asn Val Phe Phe  
115 120 125

Val Arg Asp  
130

<210> 2233  
<211> 298  
<212> PRT  
<213> Homo sapiens

<400> 2233  
Met Lys Thr Leu Gln Ser Thr Leu Leu Leu Leu Leu Val Pro Leu  
1 5 10 15  
Ile Lys Pro Ala Pro Pro Thr Gln Gln Asp Ser Arg Ile Ile Tyr Asp  
20 25 30  
Tyr Gly Thr Asp Asn Phe Glu Glu Ser Ile Phe Ser Gln Asp Tyr Glu  
35 40 45  
Asp Lys Tyr Leu Asp Gly Lys Asn Ile Lys Glu Lys Glu Thr Val Ile  
50 55 60  
Ile Pro Asn Glu Lys Ser Leu Gln Leu Gln Lys Asp Glu Ala Ile Thr  
65 70 75 80  
Pro Leu Pro Pro Lys Lys Glu Asn Asp Glu Met Pro Thr Cys Leu Leu  
85 90 95  
Cys Val Cys Leu Ser Gly Ser Val Tyr Cys Glu Glu Val Asp Ile Asp  
100 105 110  
Ala Val Pro Pro Leu Pro Lys Glu Ser Ala Tyr Leu Tyr Ala Arg Phe  
115 120 125  
Asn Lys Ile Lys Lys Leu Thr Ala Lys Asp Phe Ala Asp Ile Pro Asn  
130 135 140  
Leu Arg Arg Leu Asp Phe Thr Gly Asn Leu Ile Glu Asp Ile Glu Asp  
145 150 155 160  
Gly Thr Phe Ser Lys Leu Ser Leu Leu Glu Glu Leu Ser Leu Ala Glu  
165 170 175  
Asn Gln Leu Leu Lys Leu Pro Val Leu Pro Pro Lys Leu Thr Leu Phe  
180 185 190  
Asn Ala Lys Tyr Asn Lys Ile Lys Ser Arg Gly Ile Lys Ala Asn Ala  
195 200 205  
Phe Lys Lys Leu Asn Asn Leu Thr Phe Leu Tyr Leu Asp His Asn Ala  
210 215 220

Leu	Glu	Ser	Val	Pro	Leu	Asn	Leu	Pro	Glu	Ser	Leu	Arg	Val	Ile	His
225					230					235					240
Leu	Gln	Phe	Asn	Asn	Ile	Ala	Ser	Ile	Thr	Asp	Asp	Thr	Phe	Cys	Lys
			245						250					255	
Ala	Asn	Asp	Thr	Ser	Tyr	Ile	Arg	Asp	Arg	Ile	Glu	Glu	Ile	Arg	Leu
			260					265					270		
Glu	Gly	Asn	Pro	Ile	Val	Leu	Gly	Lys	His	Pro	Asn	Ser	Phe	Ile	Cys
		275					280					285			
Leu	Lys	Arg	Leu	Pro	Ile	Gly	Ser	Tyr	Phe						
	290					295									

<210> 2234  
 <211> 158  
 <212> PRT  
 <213> Homo sapiens

<400> 2234															
Met	Ala	Ala	Ala	Ser	Ala	Gly	Ala	Thr	Arg	Leu	Leu	Leu	Leu	Leu	Leu
1				5					10					15	
Met	Ala	Val	Ala	Ala	Pro	Ser	Arg	Ala	Arg	Gly	Ser	Gly	Cys	Arg	Ala
			20					25					30		
Gly	Thr	Gly	Ala	Arg	Gly	Ala	Gly	Ala	Glu	Gly	Arg	Glu	Gly	Glu	Ala
		35					40					45			
Cys	Gly	Thr	Val	Gly	Leu	Leu	Leu	Glu	His	Ser	Phe	Glu	Ile	Asp	Asp
	50				55						60				
Ser	Ala	Asn	Phe	Arg	Lys	Arg	Gly	Ser	Leu	Leu	Trp	Asn	Gln	Gln	Asp
65					70					75					80
Gly	Thr	Leu	Ser	Leu	Ser	Gln	Arg	Gln	Leu	Ser	Glu	Glu	Glu	Arg	Gly
			85						90					95	
Arg	Leu	Arg	Asp	Val	Ala	Ala	Ser	Tyr	Leu	Asp	Cys	Gly	Ala	Thr	Arg
			100					105					110		
Ala	Cys	Gly	Pro	Leu	Leu	Cys	Ala	Thr	Leu	Pro	Val	Ser	Leu	Phe	Lys
		115					120					125			
Asn	Ile	Asp	Asp	Thr	Leu	Lys	Cys	Val	Asn	Val	Leu	Lys	Ser	Tyr	Ser
	130					135					140				
Phe	Gln	Gln	Pro	Lys	Ala	Thr	Val	Val	Leu	Ala	Arg	Arg	Ser		
145					150					155					

<210> 2235  
 <211> 58

<212> PRT  
<213> Homo sapiens

<400> 2235

Met	Thr	Lys	Ala	Leu	Ile	Pro	Thr	Pro	Phe	Phe	Leu	Ala	Ala	Met	Trp
1				5					10					15	
Pro	Leu	Trp	Gln	His	Ser	Trp	Ala	Gln	Thr	Leu	Arg	Ser	Gln	Arg	Gln
			20					25					30		
Glu	Ala	Asp	Ala	Trp	Ala	Lys	Ala	Gly	Ala	Gly	Asn	Ser	Arg	Gly	Ser
		35					40					45			
Leu	Ala	Trp	Arg	Leu	Leu	Met	Ser	Ser	Gly						
	50					55									

<210> 2236  
<211> 71  
<212> PRT  
<213> Homo sapiens

<400> 2236

Met	Leu	Val	Ala	Ala	Ile	Val	Phe	Ile	Ser	Phe	Gly	Val	Val	Ala	Ala
1				5					10					15	
Phe	Cys	Cys	Ala	Ile	Val	Asp	Gly	Val	Phe	Ala	Ala	Gln	His	Ile	Glu
			20					25					30		
Pro	Lys	Ala	Pro	His	His	Gly	Lys	Met	Pro	Val	Tyr	Ser	Ser	Gly	Val
		35					40					45			
Gly	Tyr	Leu	Tyr	Asp	Val	Tyr	Gln	Thr	Glu	Val	Ser	Arg	Ser	Thr	Glu
	50					55					60				
Ile	His	Val	Gly	Leu	Leu	Asn									
	65					70									

<210> 2237  
<211> 605  
<212> PRT  
<213> Homo sapiens

<400> 2237

Met	Gly	Arg	Leu	Leu	Arg	Ala	Ala	Arg	Leu	Pro	Pro	Leu	Leu	Ser	Pro
1				5					10					15	
Leu	Leu	Leu	Leu	Leu	Val	Gly	Gly	Ala	Phe	Leu	Gly	Ala	Cys	Val	Ala
			20					25					30		
Gly	Ser	Asp	Glu	Pro	Gly	Pro	Glu	Gly	Leu	Thr	Ser	Thr	Ser	Leu	Leu
		35					40					45			
Asp	Leu	Leu	Leu	Pro	Thr	Gly	Leu	Glu	Pro	Leu	Asp	Ser	Glu	Glu	Pro

50					55					60					
Ser	Glu	Thr	Met	Gly	Leu	Gly	Ala	Gly	Leu	Gly	Ala	Pro	Gly	Ser	Gly
65					70					75					80
Phe	Pro	Ser	Glu	Glu	Asn	Glu	Glu	Ser	Arg	Ile	Leu	Gln	Pro	Pro	Gln
			85						90					95	
Tyr	Phe	Trp	Glu	Glu	Glu	Glu	Glu	Leu	Asn	Asp	Ser	Ser	Leu	Asp	Leu
			100					105					110		
Gly	Pro	Thr	Ala	Asp	Tyr	Val	Phe	Pro	Asp	Leu	Thr	Glu	Lys	Ala	Gly
		115					120					125			
Ser	Ile	Glu	Asp	Thr	Ser	Gln	Ala	Gln	Glu	Leu	Pro	Asn	Leu	Pro	Ser
	130					135					140				
Pro	Leu	Pro	Lys	Met	Asn	Leu	Val	Glu	Pro	Pro	Trp	His	Met	Pro	Pro
145					150					155					160
Arg	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Arg	Glu	Lys	Glu
			165						170					175	
Glu	Val	Glu	Lys	Gln	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Leu	Leu	Pro	Val
			180					185					190		
Asn	Gly	Ser	Gln	Glu	Glu	Ala	Lys	Pro	Gln	Val	Arg	Asp	Phe	Ser	Leu
	195					200					205				
Thr	Ser	Ser	Ser	Gln	Thr	Pro	Gly	Ala	Thr	Lys	Ser	Arg	His	Glu	Asp
	210					215					220				
Ser	Gly	Asp	Gln	Ala	Ser	Ser	Gly	Val	Glu	Val	Glu	Ser	Ser	Met	Gly
225					230					235					240
Pro	Ser	Leu	Leu	Leu	Pro	Ser	Val	Thr	Pro	Thr	Thr	Val	Thr	Pro	Gly
			245						250					255	
Asp	Gln	Asp	Ser	Thr	Ser	Gln	Glu	Ala	Glu	Ala	Thr	Val	Leu	Pro	Ala
			260					265					270		
Ala	Gly	Leu	Gly	Val	Glu	Phe	Glu	Ala	Pro	Gln	Glu	Ala	Ser	Glu	Glu
	275						280					285			
Ala	Thr	Ala	Gly	Ala	Ala	Gly	Leu	Ser	Gly	Gln	His	Glu	Glu	Val	Pro
	290					295					300				
Ala	Leu	Pro	Ser	Phe	Pro	Gln	Thr	Thr	Ala	Pro	Ser	Gly	Ala	Glu	His
305					310					315					320
Pro	Asp	Glu	Asp	Pro	Leu	Gly	Ser	Arg	Thr	Ser	Ala	Ser	Ser	Pro	Leu
				325					330					335	
Ala	Pro	Gly	Asp	Met	Glu	Leu	Thr	Pro	Ser	Ser	Ala	Thr	Leu	Gly	Gln
			340					345					350		
Glu	Asp	Leu	Asn	Gln	Gln	Leu	Leu	Glu	Gly	Gln	Ala	Ala	Glu	Ala	Gln

355		360		365
Ser Arg Ile Pro Trp Asp	Ser Thr Gln Val Ile Cys Lys Asp Trp Ser			
370	375	380		
Asn Leu Ala Gly Lys Asn Tyr Ile Ile Leu Asn Met Thr Glu Asn Ile				
385	390	395		400
Asp Cys Glu Val Phe Arg Gln His Arg Gly Pro Gln Leu Leu Ala Leu				
	405	410		415
Val Glu Glu Val Leu Pro Arg His Gly Ser Gly His His Gly Ala Trp				
	420	425		430
His Ile Ser Leu Ser Lys Pro Ser Glu Lys Glu Gln His Leu Leu Met				
	435	440		445
Thr Leu Val Gly Glu Gln Gly Val Val Pro Thr Gln Asp Val Leu Ser				
	450	455		460
Met Leu Gly Asp Ile Arg Arg Ser Leu Glu Glu Ile Gly Ile Gln Asn				
465	470	475		480
Tyr Ser Thr Thr Ser Ser Cys Gln Ala Arg Ala Ser Gln Val Arg Ser				
	485	490		495
Asp Tyr Gly Thr Leu Phe Val Val Leu Val Val Ile Gly Ala Ile Cys				
	500	505		510
Ile Ile Ile Ile Ala Leu Gly Leu Leu Tyr Asn Cys Trp Gln Arg Arg				
	515	520		525
Leu Pro Lys Leu Lys His Val Ser His Gly Glu Glu Leu Arg Phe Val				
	530	535		540
Glu Asn Gly Cys His Asp Asn Pro Thr Leu Asp Val Ala Ser Asp Ser				
545	550	555		560
Gln Ser Glu Met Gln Glu Lys His Pro Ser Leu Asn Gly Gly Gly Ala				
	565	570		575
Leu Asn Gly Pro Gly Ser Trp Gly Ala Leu Met Gly Gly Lys Arg Asp				
	580	585		590
Pro Glu Asp Ser Asp Val Phe Glu Glu Asp Thr His Leu				
	595	600		605

<210> 2238  
 <211> 432  
 <212> PRT  
 <213> Homo sapiens

<400> 2238  
 Met Asp Ala Arg Trp Trp Ala Val Val Val Leu Ala Ala Phe Pro Ser  
 1 5 10 15

Leu	Gly	Ala	Gly	Gly	Glu	Thr	Pro	Glu	Ala	Pro	Pro	Glu	Ser	Trp	Thr		
			20					25					30				
Gln	Leu	Trp	Phe	Phe	Arg	Phe	Val	Val	Asn	Ala	Ala	Gly	Tyr	Ala	Ser		
		35					40					45					
Phe	Met	Val	Pro	Gly	Tyr	Leu	Leu	Val	Gln	Tyr	Phe	Arg	Arg	Lys	Asn		
	50					55					60						
Tyr	Leu	Glu	Thr	Gly	Arg	Gly	Leu	Cys	Phe	Pro	Leu	Val	Lys	Ala	Cys		
65					70					75					80		
Val	Phe	Gly	Asn	Glu	Pro	Lys	Ala	Ser	Asp	Glu	Val	Pro	Leu	Ala	Pro		
				85					90					95			
Arg	Thr	Glu	Ala	Ala	Glu	Thr	Thr	Pro	Met	Trp	Gln	Ala	Leu	Lys	Leu		
			100					105					110				
Leu	Phe	Cys	Ala	Thr	Gly	Leu	Gln	Val	Ser	Tyr	Leu	Thr	Trp	Gly	Val		
		115					120					125					
Leu	Gln	Glu	Arg	Val	Met	Thr	Arg	Ser	Tyr	Gly	Ala	Thr	Ala	Thr	Ser		
	130					135					140						
Pro	Gly	Glu	Arg	Phe	Thr	Asp	Ser	Gln	Phe	Leu	Val	Leu	Met	Asn	Arg		
145					150					155					160		
Val	Leu	Ala	Leu	Ile	Val	Ala	Gly	Leu	Ser	Cys	Val	Leu	Cys	Lys	Gln		
				165				170						175			
Pro	Arg	His	Gly	Ala	Pro	Met	Tyr	Arg	Tyr	Ser	Phe	Ala	Ser	Leu	Ser		
			180					185					190				
Asn	Val	Leu	Ser	Ser	Trp	Cys	Gln	Tyr	Glu	Ala	Leu	Lys	Phe	Val	Ser		
		195					200					205					
Phe	Pro	Thr	Gln	Val	Leu	Ala	Lys	Ala	Ser	Lys	Val	Ile	Pro	Val	Met		
	210					215					220						
Leu	Met	Gly	Lys	Leu	Val	Ser	Arg	Arg	Ser	Tyr	Glu	His	Trp	Glu	Tyr		
225					230					235					240		
Leu	Thr	Ala	Thr	Leu	Ile	Ser	Ile	Gly	Val	Ser	Met	Phe	Leu	Leu	Ser		
				245					250					255			
Ser	Gly	Pro	Glu	Pro	Arg	Ser	Ser	Pro	Ala	Thr	Thr	Leu	Ser	Gly	Leu		
			260					265					270				
Ile	Leu	Leu	Ala	Gly	Tyr	Ile	Ala	Phe	Asp	Ser	Phe	Thr	Ser	Asn	Trp		
			275				280					285					
Gln	Asp	Ala	Leu	Phe	Ala	Tyr	Lys	Met	Ser	Ser	Val	Gln	Met	Met	Phe		
	290					295					300						
Gly	Val	Asn	Phe	Phe	Ser	Cys	Leu	Phe	Thr	Val	Gly	Ser	Leu	Leu	Glu		
305					310					315					320		

Gln Gly Ala Leu Leu Glu Gly Thr Arg Phe Met Gly Arg His Ser Glu  
 325 330 335  
 Phe Ala Ala His Ala Leu Leu Leu Ser Ile Cys Ser Ala Cys Gly Gln  
 340 345 350  
 Leu Phe Ile Phe Tyr Thr Ile Gly Gln Phe Gly Ala Ala Val Phe Thr  
 355 360 365  
 Ile Ile Met Thr Leu Arg Gln Ala Phe Ala Ile Leu Leu Ser Cys Leu  
 370 375 380  
 Leu Tyr Gly His Thr Val Thr Val Val Gly Gly Leu Gly Val Ala Val  
 385 390 395 400  
 Val Phe Ala Ala Leu Leu Leu Arg Val Tyr Ala Arg Gly Arg Leu Lys  
 405 410 415  
 Gln Arg Gly Lys Lys Ala Val Pro Val Glu Ser Pro Val Gln Lys Val  
 420 425 430

<210> 2239  
 <211> 432  
 <212> PRT  
 <213> Homo sapiens

<400> 2239  
 Met Asp Ala Arg Trp Trp Ala Val Val Val Leu Ala Ala Phe Pro Ser  
 1 5 10 15  
 Leu Gly Ala Gly Gly Glu Thr Pro Glu Ala Pro Pro Glu Ser Trp Thr  
 20 25 30  
 Gln Leu Trp Phe Phe Arg Phe Val Val Asn Ala Ala Gly Tyr Ala Ser  
 35 40 45  
 Phe Met Val Pro Gly Tyr Leu Leu Val Gln Tyr Phe Arg Arg Lys Asn  
 50 55 60  
 Tyr Leu Glu Thr Gly Arg Gly Leu Cys Phe Pro Leu Val Lys Ala Cys  
 65 70 75 80  
 Val Phe Gly Asn Glu Pro Lys Ala Ser Asp Glu Val Pro Leu Ala Pro  
 85 90 95  
 Arg Thr Glu Ala Ala Glu Thr Thr Pro Met Trp Gln Ala Leu Lys Leu  
 100 105 110  
 Leu Phe Cys Ala Thr Gly Leu Gln Val Ser Tyr Leu Thr Trp Gly Val  
 115 120 125



Leu	Gln	Glu	Arg	Val	Met	Thr	Arg	Ser	Tyr	Gly	Ala	Thr	Ala	Thr	Ser	130	135	140	
Pro	Gly	Glu	Arg	Phe	Thr	Asp	Ser	Gln	Phe	Leu	Val	Leu	Met	Asn	Arg	145	150	155	160
Val	Leu	Ala	Leu	Ile	Val	Ala	Gly	Leu	Ser	Cys	Val	Leu	Cys	Lys	Gln	165	170	175	
Pro	Arg	His	Gly	Ala	Pro	Met	Tyr	Arg	Tyr	Ser	Phe	Ala	Ser	Leu	Ser	180	185	190	
Asn	Val	Leu	Ser	Ser	Trp	Cys	Gln	Tyr	Glu	Ala	Leu	Lys	Phe	Val	Ser	195	200	205	
Phe	Pro	Thr	Gln	Val	Leu	Ala	Lys	Ala	Ser	Lys	Val	Ile	Pro	Val	Met	210	215	220	
Leu	Met	Gly	Lys	Leu	Val	Ser	Arg	Arg	Ser	Tyr	Glu	His	Trp	Glu	Tyr	225	230	235	240
Leu	Thr	Ala	Thr	Leu	Ile	Ser	Ile	Gly	Val	Ser	Met	Phe	Leu	Leu	Ser	245	250	255	
Ser	Gly	Pro	Glu	Pro	Arg	Ser	Ser	Pro	Ala	Thr	Thr	Leu	Ser	Gly	Leu	260	265	270	
Ile	Leu	Leu	Ala	Gly	Tyr	Ile	Ala	Phe	Asp	Ser	Phe	Thr	Ser	Asn	Trp	275	280	285	
Gln	Asp	Ala	Leu	Phe	Ala	Tyr	Lys	Met	Ser	Ser	Val	Gln	Met	Met	Phe	290	295	300	
Gly	Val	Asn	Phe	Phe	Ser	Cys	Leu	Phe	Thr	Val	Gly	Ser	Leu	Leu	Glu	305	310	315	320
Gln	Gly	Ala	Leu	Leu	Glu	Gly	Thr	Arg	Phe	Met	Gly	Arg	His	Ser	Glu	325	330	335	
Phe	Ala	Ala	His	Ala	Leu	Leu	Leu	Ser	Ile	Cys	Ser	Ala	Cys	Gly	Gln	340	345	350	
Leu	Phe	Ile	Phe	Tyr	Thr	Ile	Gly	Gln	Phe	Gly	Ala	Ala	Val	Phe	Thr	355	360	365	
Ile	Ile	Met	Thr	Leu	Arg	Gln	Ala	Phe	Ala	Ile	Leu	Leu	Ser	Cys	Leu	370	375	380	
Leu	Tyr	Gly	His	Thr	Val	Thr	Val	Val	Gly	Gly	Leu	Gly	Val	Ala	Val	385	390	395	400
Val	Phe	Ala	Ala	Leu	Leu	Leu	Arg	Val	Tyr	Ala	Arg	Gly	Arg	Leu	Lys	405	410	415	
Gln	Arg	Gly	Lys	Lys	Ala	Val	Pro	Val	Glu	Ser	Pro	Val	Gln	Lys	Val	420	425	430	

<210> 2240  
<211> 69  
<212> PRT  
<213> Homo sapiens

<400> 2240  
Met Lys Ala Val Val Leu Leu Lys Ala Phe Ser Phe Ser Leu Cys Ser  
1 5 10 15  
Ala Ile Ser Pro Val Thr Pro Gly Phe Arg Gln Thr Ile Asn Val Leu  
20 25 30  
Asp Thr Val Ala Phe Ser Ala Phe Phe Ile Tyr Leu Phe Thr Val Thr  
35 40 45  
Ala Ser Ile Asn Phe Tyr Ala Tyr Phe Ser Ser Phe Leu Ala Gly Ala  
50 55 60  
Pro Phe Ile Lys Ile  
65

<210> 2241  
<211> 57  
<212> PRT  
<213> Homo sapiens

<400> 2241  
Met Leu Asp Leu Ser Pro Ser Leu Thr Leu Lys Phe Cys Phe Leu His  
1 5 10 15  
Leu Val Phe Leu Pro Phe Lys Val Tyr Cys Gln Leu Leu Gln Glu Leu  
20 25 30  
Leu Ser Lys Pro Val Ser Lys Leu Pro Leu Thr Pro Gln Cys Gln Ser  
35 40 45  
Trp Ala Arg Pro Leu Gly Asp Leu Glu  
50 55

<210> 2242  
<211> 145  
<212> PRT  
<213> Homo sapiens

<400> 2242  
Met Leu Arg Thr Leu Val Leu Lys Gln Thr Leu Asp Leu Leu Leu Pro  
1 5 10 15

Leu Leu Glu Ala Leu Leu Val Leu Gly Val Pro Gln His Leu Glu Leu  
                   20                                  25                                  30  
 Gln Pro Leu Pro Val Gln Val Ser Leu Leu Leu Leu Gln Leu Leu Asp  
                   35                                  40                                  45  
 Leu Gly Ser Leu Lys Ser His Arg Leu His His Phe His Ser Lys Ala  
                   50                                  55                                  60  
 Leu Gln Leu Pro Val Leu Asp His Leu Asp Phe Gln Asp Phe Gln Leu  
                   65                                  70                                  75                                  80  
 Pro Trp Gln Gln Val Leu Ser Glu Leu Pro Val Ala Pro Ala Phe Gly  
                                   85                                  90                                  95  
 Gly Gly Ser Ser Val Ala Gly Phe Gly Ser Pro Gly Leu Thr Phe Ser  
                                   100                                  105                                  110  
 His Trp Leu Phe Leu Ser His Pro Val Asp Thr Phe Gly Asn Ser Gln  
                   115                                  120                                  125  
 Ala Tyr Pro Thr Ser Leu Ser Ala Leu Gln Ala Ser Ile Asn Cys Asn  
                   130                                  135                                  140  
 Arg  
 145

<210> 2243  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 2243  
 Met Ala Ile Cys Gln Phe Phe Leu Gln Gly Arg Cys Arg Phe Gly Asp  
           1                                  5                                  10                                  15  
 Arg Cys Trp Asn Glu His Pro Gly Ala Arg Gly Ala Gly Gly Gly Arg  
                   20                                  25                                  30  
 Gln Gln Pro Gln Gln Gln Pro Ser Gly Asn Asn Arg Arg Gly Trp Asn  
                   35                                  40                                  45  
 Thr Thr Ser Gln Arg Tyr Ser Asn Val Ile Gln Pro Ser Ser Phe Ser  
                   50                                  55                                  60  
 Lys Ser Thr Pro Trp Gly Gly Ser Arg Asp Gln Glu Thr  
                   65                                  70                                  75

<210> 2244  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<400> 2244

Met	Tyr	Lys	Leu	Glu	Leu	Ile	Phe	Pro	Thr	Ala	Leu	Val	Leu	Pro	Ile
1				5					10					15	
Leu	Val	Asn	Gly	Thr	Val	Ile	Cys	Pro	Leu	Lys	Ala	Arg	Asn	Ser	Val
			20					25					30		
Ile	Pro	Ser	Ser	Ser	Phe	Leu	Thr	Ser	Leu	Gln	Leu	Thr	Ile	Trp	Ile
		35					40					45			
Gln	Pro	Cys	Leu	Phe	Leu	Pro	Thr	Thr	Thr	Gly	Leu	Ser	Ser	Gly	Tyr
	50					55					60				
His	Thr	Phe	Leu	Ser	Gly	Leu	His	Ser	Cys	His	Ile	Ser	Phe	Ala	Thr
65					70					75					80
Ala	Ile	Pro	Gly	Cys	Leu										
				85											

<210> 2245

<211> 208

<212> PRT

<213> Homo sapiens

<400> 2245

Met	Gly	Leu	Gly	Ala	Arg	Gly	Ala	Trp	Ala	Ala	Leu	Leu	Leu	Gly	Thr
1				5					10					15	
Leu	Gln	Val	Leu	Ala	Leu	Leu	Gly	Ala	Ala	His	Glu	Ser	Ala	Ala	Met
			20					25					30		
Ala	Ala	Ser	Ala	Asn	Ile	Glu	Asn	Ser	Gly	Leu	Pro	His	Asn	Ser	Ser
		35					40					45			
Ala	Asn	Ser	Thr	Glu	Thr	Leu	Gln	His	Val	Pro	Ser	Asp	His	Thr	Asn
	50					55					60				
Glu	Thr	Ser	Asn	Ser	Thr	Val	Lys	Pro	Pro	Thr	Ser	Val	Ala	Ser	Asp
65					70					75					80
Ser	Ser	Asn	Thr	Thr	Val	Thr	Thr	Met	Lys	Pro	Thr	Ala	Ala	Ser	Asn
			85						90					95	
Thr	Thr	Thr	Pro	Gly	Met	Val	Ser	Thr	Asn	Met	Thr	Ser	Thr	Thr	Leu
			100					105					110		
Lys	Ser	Thr	Pro	Lys	Thr	Thr	Ser	Val	Ser	Gln	Asn	Thr	Ser	Gln	Ile
		115					120					125			
Ser	Thr	Ser	Thr	Met	Thr	Val	Thr	His	Asn	Ser	Ser	Val	Thr	Ser	Ala
	130					135					140				
Ala	Ser	Ser	Val	Thr	Ile	Thr	Thr	Thr	Met	His	Ser	Glu	Ala	Lys	Lys
145					150					155					160

Gly	Ser	Lys	Phe	Asp	Thr	Gly	Ser	Phe	Val	Gly	Gly	Ile	Val	Leu	Thr
				165					170					175	
Leu	Gly	Val	Leu	Ser	Ile	Leu	Tyr	Ile	Gly	Cys	Lys	Met	Tyr	Tyr	Ser
			180					185					190		
Arg	Arg	Gly	Ile	Arg	Tyr	Arg	Thr	Ile	Asp	Glu	His	Asp	Ala	Ile	Ile
		195					200					205			

<210> 2246  
 <211> 215  
 <212> PRT  
 <213> Homo sapiens

<400> 2246															
Met	Arg	Leu	Pro	Ala	Trp	Cys	Arg	His	Thr	Thr	Leu	Ala	Ile	Ser	Cys
1				5					10					15	
Trp	His	Cys	Leu	Val	Leu	Ala	Arg	Ala	Ser	Ala	Asp	Ser	Ala	Ser	Leu
			20					25					30		
Pro	Thr	Ile	Ser	His	Leu	Gly	Val	Lys	Pro	Leu	Ser	Val	Gly	Trp	Gly
		35					40					45			
Ala	Pro	Ser	Thr	Leu	Pro	Val	Ser	Pro	Cys	Gly	Gly	Lys	Pro	Ala	Ala
	50					55					60				
Pro	Thr	Ser	Ala	Ser	Pro	Ala	Ala	Ala	Pro	Leu	Arg	Phe	Trp	Arg	Pro
65					70					75				80	
Gly	Ala	Ser	Gly	Gly	Gly	Ala	Gly	Gly	Thr	Arg	Arg	Leu	Ala	Leu	Cys
			85						90					95	
Arg	Leu	Val	Thr	Ala	Arg	Thr	Thr	Leu	Ala	Thr	Gly	Thr	Pro	Gly	Leu
			100					105					110		
Ser	Ala	Arg	Pro	Arg	Gln	Arg	Pro	Cys	Leu	Leu	Pro	Val	Leu	Pro	Arg
		115					120					125			
Arg	Pro	Ala	Glu	Leu	Ser	Val	Ser	Leu	Glu	Pro	Ser	Pro	Gly	Ser	Ser
		130				135					140				
Gly	Arg	Gly	Phe	Leu	Cys	Leu	Pro	Phe	Cys	Lys	Arg	Asp	Ala	Asp	Thr
145					150					155					160
Ser	Leu	Gly	Gln	Thr	Leu	Thr	Ser	Ser	Cys	Ser	Leu	Ser	Ser	Ile	Leu
			165						170					175	
Val	Gly	Gly	Thr	Leu	Arg	Pro	Arg	Cys	Ser	Cys	Pro	Pro	Phe	Thr	Gln
			180					185					190		
Arg	Ser	Ala	Phe	His	Leu	Arg	Thr	Pro	His	Asn	Gln	Tyr	His	His	Gly

195	200	205
Ser Thr Ser Leu Ala Ser His		
210	215	

<210> 2247  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<400> 2247

Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn		
1	5	10 15
Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu		
	20	25 30
Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala		
	35	40 45
Leu Lys Gly Val Lys Gln Ile Lys Thr Leu Ile Glu Gln Thr Asn Glu		
	50	55 60
Glu Arg Lys Ser Leu Leu Thr Asn Leu Glu Glu Ala Lys Lys Lys Lys		
	65	70 75 80
Glu Asp Ala Leu Asn Asp Thr Lys Asp Ser Glu Met Lys Leu Lys Ala		
	85	90 95
Ser Gln Gly Val Cys Asn Asp Thr Met Met Ala Leu Trp Glu Glu Cys		
	100	105 110
Lys Pro Cys Leu Lys Gln Thr Trp Gly Lys Gly Leu Arg Pro Ser Leu		
	115	120 125
Gln Lys Gln His Arg Ala Gly Trp Pro Pro Gly		
	130	135

<210> 2248  
 <211> 363  
 <212> PRT  
 <213> Homo sapiens

<400> 2248

Met Lys Thr Leu Leu Leu Leu Val Gly Leu Leu Leu Thr Trp Glu Asn		
1	5	10 15
Gly Arg Val Leu Gly Asp Gln Met Val Ser Asp Thr Glu Leu Gln Glu		
	20	25 30
Met Ser Thr Glu Gly Ser Lys Tyr Ile Asn Arg Glu Ile Lys Asn Ala		
	35	40 45

Leu	Lys	Gly	Val	Lys	Gln	Ile	Lys	Thr	Leu	Ile	Glu	Gln	Thr	Asn	Glu		
	50					55					60						
Glu	Arg	Lys	Ser	Leu	Leu	Thr	Asn	Leu	Glu	Glu	Ala	Lys	Lys	Lys	Lys		
65					70				75						80		
Glu	Asp	Ala	Leu	Asn	Asp	Thr	Lys	Asp	Ser	Glu	Met	Lys	Leu	Lys	Ala		
				85					90						95		
Ser	Gln	Gly	Val	Cys	Asn	Asp	Thr	Met	Met	Ala	Leu	Trp	Glu	Glu	Cys		
			100					105					110				
Lys	Pro	Cys	Leu	Lys	Gln	Thr	Cys	Met	Lys	Phe	Tyr	Ala	Arg	Val	Cys		
		115					120					125					
Arg	Ser	Ser	Thr	Gly	Leu	Val	Gly	His	Gln	Val	Glu	Glu	Phe	Leu	Asn		
	130					135					140						
Gln	Ser	Ser	Pro	Phe	Tyr	Phe	Trp	Ile	Asn	Gly	Asp	Arg	Ile	Asp	Ser		
145					150					155					160		
Leu	Leu	Glu	Asn	Asp	Arg	Gln	Gln	Thr	His	Ala	Leu	Asp	Val	Met	Gln		
				165					170					175			
Asp	Ser	Phe	Asp	Arg	Ala	Ser	Ser	Ile	Met	Asp	Glu	Leu	Phe	Gln	Asp		
			180					185					190				
Arg	Phe	Phe	Thr	Arg	Glu	Ala	Gln	Asp	Pro	Phe	His	Phe	Ser	Pro	Phe		
		195					200					205					
Ser	Ser	Phe	Gln	Arg	Arg	Pro	Phe	Phe	Phe	Asn	Ile	Lys	His	Arg	Phe		
	210					215					220						
Ala	Arg	Asn	Ile	Met	Pro	Phe	Pro	Gly	Tyr	Gln	Pro	Leu	Asn	Phe	His		
225					230					235					240		
Asp	Met	Phe	Gln	Pro	Phe	Phe	Asp	Met	Ile	His	Gln	Ala	Gln	Gln	Ala		
				245					250					255			
Met	Asp	Val	Asn	Leu	His	Arg	Leu	Pro	His	Phe	Pro	Met	Glu	Phe	Thr		
			260					265					270				
Glu	Glu	Asp	Asn	Gln	Asp	Gly	Ala	Val	Cys	Lys	Glu	Ile	Arg	His	Asn		
		275					280					285					
Ser	Thr	Gly	Cys	Leu	Lys	Met	Lys	Asp	Gln	Cys	Glu	Lys	Cys	Arg	Glu		
	290					295					300						
Ile	Leu	Ser	Val	Asp	Cys	Ser	Ser	Asn	Asn	Pro	Ala	Gln	Val	Gln	Leu		
305					310					315					320		
Arg	Gln	Glu	Leu	Asn	Asn	Ser	Leu	Gln	Ile	Ala	Glu	Lys	Phe	Thr	Lys		
				325					330					335			
Leu	Val	Arg	Arg	Ala	Ala	Ala	Val	Leu	Pro	Gly	Glu	Asp	Val	Gln	His		
			340					345					350				



Val Leu Pro Ala Glu Ala Ala Gly Arg Ala Val  
355 360

<210> 2249  
<211> 85  
<212> PRT  
<213> Homo sapiens

<400> 2249  
Met Ala Ala Gly Gly Cys Leu Leu Leu Leu Ala Phe Phe Pro Leu Ser  
1 5 10 15  
Arg Gly Ser His Phe His Leu Gln Lys Arg Ala Leu Ala Glu Ala Ser  
20 25 30  
Phe Glu Ala Thr Leu Cys Glu Leu Phe Val Ile Glu Thr Ala Ser Lys  
35 40 45  
Gly Thr Leu Leu Ile Ile Thr Ile Arg His Leu Val Thr Tyr Ile Ile  
50 55 60  
Val Ile Phe Lys Cys His Met Leu Lys Asn Glu Met Asn Ser Ser Ile  
65 70 75 80  
Lys Pro His Phe Gln  
85

<210> 2250  
<211> 184  
<212> PRT  
<213> Homo sapiens

<400> 2250  
Met Lys Ala Leu Gly Ala Val Leu Leu Ala Leu Leu Leu Cys Gly Arg  
1 5 10 15  
Pro Gly Arg Gly Gln Thr Gln Gln Glu Glu Glu Glu Asp Glu Asp  
20 25 30  
His Gly Pro Asp Asp Tyr Asp Glu Glu Asp Glu Asp Glu Val Glu Glu  
35 40 45  
Glu Glu Thr Asn Arg Leu Pro Gly Gly Arg Ser Arg Val Leu Leu Arg  
50 55 60  
Cys Tyr Thr Cys Lys Ser Leu Pro Arg Asp Glu Arg Cys Asn Leu Thr  
65 70 75 80  
Gln Asn Cys Ser His Gly Gln Thr Cys Thr Thr Leu Ile Ala His Gly  
85 90 95  
Asn Thr Glu Ser Gly Leu Leu Thr Thr His Ser Thr Trp Cys Thr Asp  
100 105 110

Ser Cys Gln Pro Ile Thr Lys Thr Val Glu Gly Thr Gln Val Thr Met  
 115 120 125  
 Thr Cys Cys Gln Ser Ser Leu Cys Asn Val Pro Pro Trp Gln Ser Ser  
 130 135 140  
 Arg Val Gln Asp Pro Thr Gly Lys Gly Ala Gly Gly Pro Arg Gly Ser  
 145 150 155 160  
 Ser Glu Thr Val Gly Ala Ala Leu Leu Leu Asn Leu Leu Ala Gly Leu  
 165 170 175  
 Gly Ala Met Gly Ala Arg Arg Pro  
 180

<210> 2251  
 <211> 352  
 <212> PRT  
 <213> Homo sapiens

<400> 2251  
 Met Val Glu Ala Leu Arg Ala Gly Ser Ala Arg Leu Val Ala Ala Pro  
 1 5 10 15  
 Val Ala Thr Ala Asn Pro Ala Arg Cys Leu Ala Leu Asn Val Ser Leu  
 20 25 30  
 Arg Glu Trp Thr Ala Arg Tyr Gly Ala Ala Pro Ala Ala Pro Arg Cys  
 35 40 45  
 Asp Ala Leu Asp Gly Asp Ala Val Val Leu Leu Arg Ala Arg Asp Leu  
 50 55 60  
 Phe Asn Leu Ser Ala Pro Leu Ala Arg Pro Val Gly Thr Ser Leu Phe  
 65 70 75 80  
 Leu Gln Thr Ala Leu Arg Gly Trp Ala Val Gln Leu Leu Asp Leu Thr  
 85 90 95  
 Phe Ala Ala Ala Arg Gln Pro Pro Leu Ala Thr Ala His Ala Arg Trp  
 100 105 110  
 Lys Ala Glu Arg Glu Gly Arg Ala Arg Arg Ala Ala Leu Leu Arg Ala  
 115 120 125  
 Leu Gly Ile Arg Leu Val Ser Trp Glu Gly Gly Arg Leu Glu Trp Phe  
 130 135 140  
 Gly Cys Asn Lys Glu Thr Thr Arg Cys Phe Gly Thr Val Val Gly Asp  
 145 150 155 160  
 Thr Pro Ala Tyr Leu Tyr Glu Glu Arg Trp Thr Pro Pro Cys Cys Leu  
 165 170 175

Arg	Ala	Leu	Arg	Glu	Thr	Ala	Arg	Tyr	Val	Val	Gly	Val	Leu	Glu	Ala
		180						185					190		
Ala	Gly	Val	Arg	Tyr	Trp	Leu	Glu	Gly	Gly	Ser	Leu	Leu	Gly	Ala	Ala
		195					200					205			
Arg	His	Gly	Asp	Ile	Ile	Pro	Trp	Asp	Tyr	Asp	Val	Asp	Leu	Gly	Ile
	210					215					220				
Tyr	Leu	Glu	Asp	Val	Gly	Asn	Cys	Glu	Gln	Leu	Arg	Gly	Ala	Glu	Ala
225					230					235					240
Gly	Ser	Val	Val	Asp	Glu	Arg	Gly	Phe	Val	Trp	Glu	Lys	Ala	Val	Glu
				245					250					255	
Gly	Asp	Phe	Phe	Arg	Val	Gln	Tyr	Ser	Glu	Ser	Asn	His	Leu	His	Val
			260					265					270		
Asp	Leu	Trp	Pro	Phe	Tyr	Pro	Arg	Asn	Gly	Val	Met	Thr	Lys	Asp	Thr
		275					280					285			
Trp	Leu	Asp	His	Arg	Gln	Asp	Val	Glu	Phe	Pro	Glu	His	Phe	Leu	Gln
	290					295					300				
Pro	Leu	Val	Pro	Leu	Pro	Phe	Ala	Gly	Phe	Val	Ala	Gln	Ala	Pro	Asn
305					310					315					320
Asn	Tyr	Arg	Arg	Phe	Leu	Glu	Leu	Lys	Phe	Gly	Pro	Gly	Val	Ile	Glu
				325					330					335	
Asn	Pro	Gln	Tyr	Pro	Asn	Pro	Ala	Leu	Leu	Ser	Leu	Thr	Gly	Ser	Gly
		340						345					350		

<210> 2252  
 <211> 448  
 <212> PRT  
 <213> Homo sapiens

<400> 2252															
Met	Ala	Trp	Ala	Ser	Arg	Leu	Gly	Leu	Leu	Leu	Ala	Leu	Leu	Leu	Pro
1				5					10					15	
Val	Val	Gly	Ala	Ser	Thr	Pro	Gly	Thr	Val	Val	Arg	Leu	Asn	Lys	Ala
			20					25					30		
Ala	Leu	Ser	Tyr	Val	Ser	Glu	Ile	Gly	Lys	Ala	Pro	Leu	Gln	Arg	Ala
		35					40					45			
Leu	Gln	Val	Thr	Val	Pro	His	Phe	Leu	Asp	Trp	Ser	Gly	Glu	Ala	Leu
	50					55					60				
Gln	Pro	Thr	Arg	Ile	Arg	Ile	Leu	Asn	Val	His	Val	Pro	Arg	Leu	His

65		70		75		80									
Leu	Lys	Phe	Ile	Ala	Gly	Phe	Gly	Val	Arg	Leu	Leu	Ala	Ala	Ala	Asn
				85					90					95	
Phe	Thr	Phe	Lys	Val	Phe	Arg	Ala	Pro	Glu	Pro	Leu	Glu	Leu	Thr	Leu
			100					105					110		
Pro	Val	Glu	Leu	Leu	Ala	Asp	Thr	Arg	Val	Thr	Gln	Ser	Ser	Ile	Arg
		115					120					125			
Thr	Pro	Val	Val	Ser	Ile	Ser	Ala	Cys	Ser	Leu	Phe	Ser	Gly	His	Ala
	130					135					140				
Asn	Glu	Phe	Asp	Gly	Ser	Asn	Ser	Thr	Ser	His	Ala	Leu	Leu	Val	Leu
145					150					155					160
Val	Gln	Lys	His	Ile	Lys	Ala	Val	Leu	Ser	Asn	Lys	Leu	Cys	Leu	Ser
				165					170					175	
Ile	Ser	Asn	Leu	Val	Gln	Gly	Val	Asn	Val	His	Leu	Gly	Thr	Leu	Ile
			180					185					190		
Gly	Leu	Asn	Pro	Val	Gly	Pro	Glu	Ser	Gln	Ile	Arg	Tyr	Ser	Met	Val
		195					200					205			
Ser	Val	Pro	Thr	Val	Thr	Ser	Asp	Tyr	Ile	Ser	Leu	Glu	Val	Asn	Ala
	210					215					220				
Val	Leu	Phe	Leu	Leu	Gly	Lys	Pro	Ile	Ile	Leu	Pro	Thr	Asp	Ala	Thr
225					230					235					240
Pro	Phe	Val	Leu	Pro	Arg	His	Val	Gly	Thr	Glu	Gly	Ser	Met	Ala	Thr
				245					250					255	
Val	Gly	Leu	Ser	Gln	Gln	Leu	Phe	Asp	Ser	Ala	Leu	Leu	Leu	Leu	Gln
			260					265					270		
Lys	Ala	Gly	Ala	Leu	Asn	Leu	Asp	Ile	Thr	Gly	Gln	Leu	Arg	Ser	Asp
		275					280					285			
Asp	Asn	Leu	Leu	Asn	Thr	Ser	Ala	Leu	Gly	Arg	Leu	Ile	Pro	Glu	Val
	290					295					300				
Ala	Arg	Gln	Phe	Pro	Glu	Pro	Met	Pro	Val	Val	Leu	Lys	Val	Arg	Leu
305					310					315					320
Gly	Ala	Thr	Pro	Val	Ala	Met	Leu	His	Thr	Asn	Asn	Ala	Thr	Leu	Arg
				325					330					335	
Leu	Gln	Pro	Phe	Val	Glu	Val	Leu	Ala	Thr	Ala	Ser	Asn	Ser	Ala	Phe
			340					345					350		
Gln	Ser	Leu	Phe	Ser	Leu	Asp	Val	Val	Val	Asn	Leu	Arg	Leu	Gln	Leu
		355					360					365			
Ser	Val	Ser	Lys	Val	Lys	Leu	Gln	Gly	Thr	Thr	Ser	Val	Leu	Gly	Asp

370		375		380
Val Gln Leu Thr Val Ala Ser Ser Asn Val Gly Phe Ile Asp Thr Asp				
385		390		400
Gln Val Arg Thr Leu Met Gly Thr Val Phe Glu Lys Pro Leu Leu Asp				
	405		410	415
His Leu Asn Ala Leu Leu Ala Met Gly Ile Ala Leu Pro Gly Val Val				
	420		425	430
Asn Leu His Tyr Val Pro Leu Arg Ser Leu Ser Met Arg Ala Thr Trp				
	435		440	445

<210> 2253  
 <211> 183  
 <212> PRT  
 <213> Homo sapiens

<400> 2253

Met Glu Pro Glu Glu Gly Thr Pro Leu Trp Arg Leu Gln Lys Leu Pro				
1		5		15
Ala Glu Leu Gly Pro Gln Leu Leu His Lys Ile Ile Asp Gly Ile Cys				
	20		25	30
Gly Arg Ala Tyr Pro Val Tyr Gln Asp Tyr His Thr Val Trp Glu Ser				
	35		40	45
Glu Glu Trp Met His Val Leu Glu Asp Ile Ala Lys Phe Phe Lys Ala				
	50		55	60
Ile Val Gly Lys Asn Leu Pro Asp Glu Glu Ile Phe Gln Gln Leu Asn				
	65		70	75
Gln Leu Asn Ser Leu His Gln Glu Thr Ile Met Lys Cys Val Lys Ser				
	85		90	95
Arg Lys Asp Glu Ile Lys Gln Ala Leu Ser Arg Glu Ile Val Ala Ile				
	100		105	110
Ser Ser Ala Gln Leu Gln Asp Phe Asp Trp Gln Val Lys Leu Ala Leu				
	115		120	125
Ser Ser Asp Lys Ile Ala Ala Leu Arg Met Pro Leu Leu Ser Leu His				
	130		135	140
Leu Asp Val Lys Glu Asn Gly Glu Val Lys Pro Tyr Ser Ile Glu Met				
	145		150	155
Ser Arg Glu Glu Leu Gln Asn Leu Ile Gln Ser Leu Glu Ala Ala Asn				
	165		170	175

Lys Val Val Leu Gln Leu Lys  
180

<210> 2254  
<211> 121  
<212> PRT  
<213> Homo sapiens

<400> 2254  
Met Pro Cys Gly Arg Gln His Leu Gln Asn Leu Asp Asp Ala Val Asn  
1 5 10 15  
Gly Ser Ala Trp Thr Ile Leu Leu Leu Thr Glu Asn Phe Leu Arg Asp  
20 25 30  
Thr Trp Cys Asn Phe Gln Phe Tyr Thr Ser Leu Met Asn Ser Val Asn  
35 40 45  
Arg Gln His Lys Tyr Asn Ser Val Ile Pro Met Arg Pro Leu Asn Asn  
50 55 60  
Pro Leu Pro Arg Glu Arg Thr Pro Phe Ala Leu Gln Thr Ile Asn Ala  
65 70 75 80  
Leu Glu Glu Glu Ser Arg Gly Phe Pro Thr Gln Val Glu Arg Ile Phe  
85 90 95  
Gln Glu Ser Val Tyr Lys Thr Gln Gln Thr Ile Trp Lys Glu Thr Arg  
100 105 110  
Asn Met Val Gln Arg Gln Phe Ile Ala  
115 120

<210> 2255  
<211> 251  
<212> PRT  
<213> Homo sapiens

<400> 2255  
Met Leu Phe His Tyr Asp Trp Ile Ser Ile Pro Leu Val Tyr Thr Gln  
1 5 10 15  
Val Val Thr Ile Ala Val Tyr Ser Phe Phe Ala Leu Ser Leu Val Gly  
20 25 30  
Arg Gln Phe Val Glu Pro Glu Ala Gly Ala Ala Lys Pro Gln Lys Leu  
35 40 45  
Leu Lys Pro Gly Gln Glu Pro Ala Pro Ala Leu Gly Asp Pro Asp Met  
50 55 60  
Tyr Val Pro Leu Thr Thr Leu Leu Gln Phe Phe Phe Tyr Ala Gly Trp

65		70		75		80									
Leu	Lys	Val	Ala	Glu	Gln	Ile	Ile	Asn	Pro	Phe	Gly	Glu	Asp	Asp	Asp
				85					90					95	
Asp	Phe	Glu	Thr	Asn	Gln	Leu	Ile	Asp	Arg	Asn	Leu	Gln	Val	Ser	Leu
			100					105					110		
Leu	Ser	Val	Asp	Glu	Met	Tyr	Gln	Asn	Leu	Pro	Pro	Ala	Glu	Lys	Asp
		115					120					125			
Gln	Tyr	Trp	Asp	Glu	Asp	Gln	Pro	Gln	Pro	Pro	Tyr	Thr	Val	Ala	Thr
	130					135					140				
Ala	Ala	Glu	Ser	Leu	Arg	Pro	Ser	Phe	Leu	Gly	Ser	Thr	Phe	Asn	Leu
145					150					155					160
Arg	Met	Ser	Asp	Asp	Pro	Glu	Gln	Ser	Leu	Gln	Val	Glu	Ala	Ser	Pro
				165					170					175	
Gly	Ser	Gly	Arg	Pro	Ala	Pro	Ala	Ala	Gln	Thr	Pro	Leu	Leu	Gly	Arg
			180					185					190		
Phe	Leu	Gly	Val	Gly	Ala	Pro	Ser	Pro	Ala	Ile	Ser	Leu	Arg	Asn	Phe
		195					200					205			
Gly	Arg	Val	Arg	Gly	Thr	Pro	Arg	Pro	Pro	His	Leu	Leu	Arg	Phe	Arg
	210					215					220				
Ala	Glu	Glu	Gly	Gly	Asp	Pro	Glu	Ala	Ala	Ala	Arg	Ile	Glu	Glu	Glu
225					230					235					240
Ser	Ala	Glu	Ser	Gly	Asp	Glu	Ala	Leu	Glu	Pro					
				245					250						

<210> 2256  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<400> 2256															
Met	Arg	Pro	Gly	Lys	Lys	Val	Leu	Val	Met	Gly	Ile	Val	Asp	Leu	Asn
1				5					10					15	
Pro	Glu	Ser	Phe	Ala	Ile	Ser	Leu	Thr	Cys	Gly	Asp	Ser	Glu	Asp	Pro
			20					25					30		
Pro	Ala	Asp	Val	Ala	Ile	Glu	Leu	Lys	Ala	Val	Phe	Thr	Asp	Arg	Gln
		35					40				45				
Leu	Leu	Arg	Asn	Ser	Cys	Ile	Ser	Gly	Glu	Arg	Gly	Glu	Glu	Gln	Ser
	50					55					60				
Ala	Ile	Pro	Tyr	Phe	Pro	Phe	Ile	Pro	Asp	Gln	Pro	Phe	Arg	Val	Glu
65					70					75					80



Ile Leu Cys Glu His Pro Arg Phe Arg Val Phe Val Asp Gly His Gln  
85 90 95

Leu Phe Asp Phe Tyr His Arg Ile Gln Thr Leu Ser Ala Ile Asp Thr  
100 105 110

Ile Lys Ile Asn Gly Asp Leu Gln Ile Thr Lys Leu Gly  
115 120 125

<210> 2257

<211> 170

<212> PRT

<213> Homo sapiens

<400> 2257

Met Ile Ser Ile His Asn Glu Glu Glu Asn Ala Phe Ile Leu Asp Thr  
1 5 10 15

Leu Lys Lys Gln Trp Lys Gly Pro Asp Asp Ile Leu Leu Gly Met Phe  
20 25 30

Tyr Asp Thr Asp Asp Ala Ser Phe Lys Trp Phe Asp Asn Ser Asn Met  
35 40 45

Thr Phe Asp Lys Trp Thr Asp Gln Asp Asp Asp Glu Asp Leu Val Asp  
50 55 60

Thr Cys Ala Phe Leu His Ile Lys Thr Gly Glu Trp Lys Lys Gly Asn  
65 70 75 80

Cys Glu Val Ser Ser Val Glu Gly Thr Leu Cys Lys Thr Ala Ile Pro  
85 90 95

Tyr Lys Arg Lys Tyr Leu Ser Asp Asn His Ile Leu Ile Ser Ala Leu  
100 105 110

Val Ile Ala Ser Thr Val Ile Leu Thr Val Leu Gly Ala Ile Ile Trp  
115 120 125

Phe Leu Tyr Lys Lys His Ser Asp Ser Arg Phe Thr Thr Val Phe Ser  
130 135 140

Thr Ala Pro Gln Ser Pro Tyr Asn Glu Asp Cys Val Leu Val Val Gly  
145 150 155 160

Glu Glu Asn Glu Tyr Pro Val Gln Phe Asp  
165 170

<210> 2258

<211> 595

<212> PRT

<213> Homo sapiens

<400> 2258

Met Leu Leu Leu Leu Leu Leu Leu Pro Pro Leu Leu Cys Gly Arg Val  
1 5 10 15

Gly Ala Lys Glu Gln Lys Asp Tyr Leu Leu Thr Met Gln Lys Ser Val  
20 25 30

Thr Val Gln Glu Gly Leu Cys Val Ser Val Leu Cys Ser Phe Ser Tyr  
35 40 45

Pro Gln Asn Gly Trp Thr Ala Ser Asp Pro Val His Gly Tyr Trp Phe  
50 55 60

Arg Ala Gly Asp His Val Ser Arg Asn Ile Pro Val Ala Thr Asn Asn  
65 70 75 80

Pro Ala Arg Ala Val Gln Glu Glu Thr Arg Asp Arg Phe His Leu Leu  
85 90 95

Gly Asp Pro Gln Asn Lys Asp Cys Thr Leu Ser Ile Arg Asp Thr Arg  
100 105 110

Glu Ser Asp Ala Gly Thr Tyr Val Phe Cys Val Glu Arg Gly Asn Met  
115 120 125

Lys Trp Asn Tyr Lys Tyr Asp Gln Leu Ser Val Asn Val Thr Ala Ser  
130 135 140

Gln Asp Leu Leu Ser Arg Tyr Arg Leu Glu Val Pro Glu Ser Val Thr  
145 150 155 160

Val Gln Glu Gly Leu Cys Val Ser Val Pro Cys Ser Val Leu Tyr Pro  
165 170 175

His Tyr Asn Trp Thr Ala Ser Ser Pro Val Tyr Gly Ser Trp Phe Lys  
180 185 190

Glu Gly Ala Asp Ile Pro Trp Asp Ile Pro Val Ala Thr Asn Thr Pro  
195 200 205

Ser Gly Lys Val Gln Glu Asp Thr His Gly Arg Phe Leu Leu Leu Gly  
210 215 220

Asp Pro Gln Thr Asn Asn Cys Ser Leu Ser Ile Arg Asp Ala Arg Lys  
225 230 235 240

Gly Asp Ser Gly Lys Tyr Tyr Phe Gln Val Glu Arg Gly Ser Arg Lys  
245 250 255

Trp Asn Tyr Ile Tyr Asp Lys Leu Ser Val His Val Thr Ala Leu Thr  
260 265 270

His Met Pro Thr Phe Ser Ile Pro Gly Thr Leu Glu Ser Gly His Pro  
275 280 285

Arg Asn Leu Thr Cys Ser Val Pro Trp Ala Cys Glu Gln Gly Thr Pro

[illegible]

&lt;210&gt; 2259

&lt;211&gt; 274

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2259

Met	Ser	Ser	Asn	Gly	Ile	Pro	Glu	Cys	Tyr	Ala	Glu	Glu	Asp	Glu	Phe
1				5					10					15	

Ser	Gly	Leu	Glu	Thr	Asp	Thr	Ala	Val	Pro	Thr	Glu	Glu	Ala	Tyr	Val
			20					25					30		

Ile	Tyr	Asp	Glu	Asp	Tyr	Glu	Phe	Glu	Thr	Ser	Arg	Pro	Pro	Thr	Thr
		35					40					45			

Thr	Glu	Pro	Ser	Thr	Thr	Ala	Thr	Thr	Pro	Arg	Val	Ile	Pro	Glu	Glu
	50					55					60				

Gly	Ala	Ile	Ser	Ser	Phe	Pro	Glu	Glu	Glu	Phe	Asp	Leu	Ala	Gly	Arg
65					70					75					80

Lys	Arg	Phe	Val	Ala	Pro	Tyr	Val	Thr	Tyr	Leu	Asn	Lys	Asp	Pro	Ser
				85					90					95	

Ala	Pro	Cys	Ser	Leu	Thr	Asp	Ala	Leu	Asp	His	Phe	Gln	Val	Asp	Ser
			100					105					110		

Leu	Asp	Glu	Ile	Ile	Pro	Asn	Asp	Leu	Lys	Lys	Ser	Asp	Leu	Pro	Pro
		115					120					125			

Gln	His	Ala	Pro	Arg	Asn	Ile	Thr	Val	Val	Ala	Val	Glu	Gly	Cys	His
	130					135					140				

Ser	Phe	Val	Ile	Val	Asp	Trp	Asp	Lys	Ala	Thr	Pro	Gly	Asp	Val	Val
145					150					155					160

Thr	Gly	Tyr	Leu	Val	Tyr	Ser	Ala	Ser	Tyr	Glu	Asp	Phe	Ile	Arg	Asn
			165						170					175	

Lys	Trp	Ser	Thr	Gln	Ala	Ser	Ser	Val	Thr	His	Leu	Pro	Ile	Glu	Asn
			180					185					190		

Leu	Lys	Pro	Asn	Thr	Arg	Tyr	Tyr	Phe	Lys	Val	Gln	Ala	Gln	Asn	Pro
		195					200					205			

His	Gly	Tyr	Gly	Pro	Ile	Ser	Pro	Ser	Val	Ser	Phe	Val	Thr	Glu	Ser
	210					215					220				

Asp	Asn	Pro	Leu	Leu	Val	Val	Arg	Pro	Pro	Gly	Gly	Glu	Pro	Ile	Trp
225					230					235					240

Ile	Pro	Phe	Ala	Phe	Lys	His	Asp	Pro	Ser	Tyr	Thr	Asp	Cys	His	Gly
			245						250					255	

Arg Gln Tyr Val Lys Arg Thr Leu Val Ser Lys Val Arg Gly Ser Trp  
260 265 270

Ser Leu

<210> 2260  
<211> 468  
<212> PRT  
<213> Homo sapiens

<400> 2260

Met Pro Ala Leu His Thr Leu Asn Leu Asp His Asn Leu Ile Asp Ala  
1 5 10 15

Leu Pro Pro Gly Ala Phe Ala Gln Leu Gly Gln Leu Ser Arg Leu Asp  
20 25 30

Leu Thr Ser Asn Arg Leu Ala Thr Leu Ala Pro Asp Pro Leu Phe Ser  
35 40 45

Arg Gly Arg Asp Ala Glu Ala Ser Pro Ala Pro Leu Val Leu Ser Phe  
50 55 60

Ser Gly Asn Pro Leu His Cys Asn Cys Glu Leu Leu Trp Leu Arg Arg  
65 70 75 80

Leu Ala Arg Pro Asp Asp Leu Glu Thr Cys Ala Ser Pro Pro Gly Leu  
85 90 95

Ala Gly Arg Tyr Phe Trp Ala Val Pro Glu Gly Glu Phe Ser Cys Glu  
100 105 110

Pro Pro Leu Ile Ala Arg His Thr Gln Arg Leu Trp Val Leu Glu Gly  
115 120 125

Gln Arg Ala Thr Leu Arg Cys Arg Ala Leu Gly Asp Pro Ala Pro Thr  
130 135 140

Met His Trp Val Gly Pro Asp Asp Arg Leu Val Gly Asn Ser Ser Arg  
145 150 155 160

Ala Arg Ala Phe Pro Asn Gly Thr Leu Glu Ile Gly Ala Thr Gly Ala  
165 170 175

Gly Asp Ala Gly Gly Tyr Thr Cys Ile Ala Thr Asn Pro Ala Gly Glu  
180 185 190

Ala Thr Ala Arg Val Glu Leu Arg Val Leu Ala Leu Pro His Gly Gly  
195 200 205

Asn Ser Ser Ala Glu Gly Gly Arg Pro Gly Pro Ser Asp Ile Ala Ala  
210 215 220

Ser Ala Arg Thr Ala Ala Glu Gly Glu Gly Thr Leu Glu Ser Glu Pro  
 225 230 235 240  
 Ala Val Gln Val Thr Glu Val Thr Ala Thr Ser Gly Leu Val Ser Trp  
 245 250 255  
 Gly Pro Gly Arg Pro Ala Asp Pro Val Trp Met Phe Gln Ile Gln Tyr  
 260 265 270  
 Asn Ser Ser Glu Asp Glu Thr Leu Ile Tyr Arg Ile Val Pro Ala Ser  
 275 280 285  
 Ser His His Phe Leu Leu Lys His Leu Val Pro Gly Ala Asp Tyr Asp  
 290 295 300  
 Leu Cys Leu Leu Ala Leu Ser Pro Ala Ala Gly Pro Ser Asp Leu Thr  
 305 310 315 320  
 Ala Thr Arg Leu Leu Gly Cys Ala His Phe Ser Thr Leu Pro Ala Ser  
 325 330 335  
 Pro Leu Cys His Ala Leu Gln Ala His Val Leu Gly Gly Thr Leu Thr  
 340 345 350  
 Val Ala Val Gly Gly Val Leu Val Ala Ala Leu Leu Val Phe Thr Val  
 355 360 365  
 Ala Leu Leu Val Arg Gly Arg Gly Ala Gly Asn Gly Arg Leu Pro Leu  
 370 375 380  
 Lys Leu Ser His Val Gln Ser Gln Thr Asn Gly Gly Pro Ser Pro Thr  
 385 390 395 400  
 Pro Lys Ala His Pro Pro Arg Ser Pro Pro Pro Arg Pro Gln Arg Ser  
 405 410 415  
 Cys Ser Leu Asp Leu Gly Asp Ala Gly Cys Tyr Gly Tyr Ala Arg Arg  
 420 425 430  
 Leu Gly Gly Ala Trp Ala Arg Arg Ser His Ser Val His Gly Gly Leu  
 435 440 445  
 Leu Gly Ala Gly Cys Arg Gly Val Gly Gly Ser Ala Glu Arg Leu Glu  
 450 455 460  
 Glu Ser Val Val  
 465

<210> 2261

<211> 86

<212> PRT

<213> Homo sapiens

<400> 2261

Met Asn Arg Gly Asp Phe Leu Leu Ser Val Asn Gly Ala Ser Leu Ala

1	5	10	15
Gly Leu Ala His Gly Asn Val Leu Lys Val Leu His Gln Ala Gln Leu	20	25	30
His Lys Asp Ala Leu Val Val Ile Lys Lys Gly Met Asp Gln Pro Arg	35	40	45
Pro Ser Ala Arg Gln Glu Pro Pro Thr Ala Asn Gly Lys Gly Leu Leu	50	55	60
Ser Arg Lys Thr Ile Pro Leu Glu Pro Gly Ile Gly Lys Met Ile Ile	65	70	75
Ser Thr Thr Ser Arg Leu	85		

<210> 2262  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<400> 2262
Met Lys Gly Ser Arg Ala Leu Leu Leu Val Ala Leu Thr Leu Phe Cys
1 5 10 15
Ile Cys Arg Met Ala Thr Gly Glu Asp Asn Asp Glu Phe Phe Met Asp
20 25 30
Phe Leu Gln Thr Leu Leu Val Gly Thr Pro Glu Glu Leu Tyr Glu Gly
35 40 45
Thr Leu Gly Lys Tyr Asn Val Asn Glu Asp Ala Lys Ala Ala Met Thr
50 55 60
Glu Leu Lys Ser Cys Ile Asp Gly Leu Gln Pro Met His Lys Ala Glu
65 70 75 80
Leu Val Lys Leu Leu Val Gln Val Leu Gly Ser Gln Asp Gly Ala Gly
85 90 95
Thr Asp Tyr Lys Asp Asp Asp Asp Lys
100 105

<210> 2263  
 <211> 167  
 <212> PRT  
 <213> Homo sapiens

<400> 2263
Met Ala Ala Ser Val Cys Ser Gly Leu Leu Gly Pro Arg Val Leu Ser
1 5 10 15



Trp	Ser	Arg	Glu	Leu	Pro	Cys	Ala	Trp	Arg	Ala	Leu	His	Thr	Ser	Pro
			20					25					30		
Val	Cys	Ala	Lys	Asn	Arg	Ala	Ala	Arg	Val	Arg	Val	Ser	Lys	Gly	Asp
		35					40					45			
Lys	Pro	Val	Thr	Tyr	Glu	Glu	Ala	His	Ala	Pro	His	Tyr	Ile	Ala	His
		50				55					60				
Arg	Lys	Gly	Trp	Leu	Ser	Leu	His	Thr	Gly	Asn	Leu	Asp	Gly	Glu	Asp
		65			70					75					80
His	Ala	Ala	Glu	Arg	Thr	Val	Glu	Asp	Val	Phe	Leu	Arg	Lys	Phe	Met
				85					90					95	
Trp	Gly	Thr	Phe	Pro	Gly	Cys	Leu	Ala	Asp	Gln	Leu	Val	Leu	Lys	Arg
			100					105						110	
Arg	Gly	Asn	Gln	Leu	Glu	Ile	Cys	Ala	Val	Val	Leu	Arg	Gln	Leu	Ser
		115					120					125			
Pro	His	Lys	Tyr	Tyr	Phe	Leu	Val	Gly	Tyr	Ser	Glu	Thr	Leu	Leu	Ser
		130				135					140				
Tyr	Phe	Tyr	Lys	Cys	Pro	Val	Arg	Leu	His	Leu	Gln	Thr	Val	Pro	Ser
					150					155					160
Lys	Val	Val	Tyr	Lys	Tyr	Leu									
				165											

<210> 2264  
 <211> 203  
 <212> PRT  
 <213> Homo sapiens

<400> 2264

Met	Ala	Arg	Pro	Arg	Pro	Arg	Glu	Tyr	Lys	Ala	Gly	Asp	Leu	Val	Phe
1				5					10					15	
Ala	Lys	Met	Lys	Gly	Tyr	Pro	His	Trp	Pro	Ala	Arg	Ile	Asp	Glu	Leu
			20					25					30		
Pro	Glu	Gly	Ala	Val	Lys	Pro	Pro	Ala	Asn	Lys	Tyr	Pro	Ile	Phe	Phe
		35					40					45			
Phe	Gly	Thr	His	Glu	Thr	Ala	Phe	Leu	Gly	Pro	Lys	Asp	Leu	Phe	Pro
		50				55					60				
Tyr	Lys	Glu	Tyr	Lys	Asp	Lys	Phe	Gly	Lys	Ser	Asn	Lys	Arg	Lys	Gly
		65			70					75					80
Phe	Asn	Glu	Gly	Leu	Trp	Glu	Ile	Glu	Asn	Asn	Pro	Gly	Val	Lys	Phe
				85					90					95	
Thr	Gly	Tyr	Gln	Ala	Ile	Gln	Gln	Gln	Ser	Ser	Ser	Glu	Thr	Glu	Gly



Asp Ile Val Trp Ala Lys Ile Tyr Gly Phe Pro Trp Trp Pro Ala Arg  
 165 170 175  
 Ile Leu Thr Ile Thr Val Ser Arg Lys Asp Asn Gly Leu Leu Val Arg  
 180 185 190  
 Gln Glu Ala Arg Ile Ser Trp Phe Gly Ser Pro Thr Thr Ser Phe Leu  
 195 200 205  
 Ala Leu Ser Gln Leu Ser Pro Phe Leu Glu Asn Phe Gln Ser Arg Phe  
 210 215 220  
 Asn Lys Lys Arg Lys Gly Leu Tyr Arg Lys Ala Ile Thr Glu Ala Ala  
 225 230 235 240  
 Lys Ala Ala Lys Gln Leu Thr Pro Glu Val Arg Ala Cys  
 245 250

<210> 2266  
 <211> 314  
 <212> PRT  
 <213> Homo sapiens

<400> 2266

Met Pro His Ala Phe Lys Pro Gly Asp Leu Val Phe Ala Lys Met Lys  
 1 5 10 15  
 Gly Tyr Pro His Trp Pro Ala Arg Ile Asp Asp Ile Ala Asp Gly Ala  
 20 25 30  
 Val Lys Pro Pro Pro Asn Lys Tyr Pro Ile Phe Phe Phe Gly Thr His  
 35 40 45  
 Glu Thr Ala Phe Leu Gly Pro Lys Asp Leu Phe Pro Tyr Asp Lys Cys  
 50 55 60  
 Lys Asp Lys Tyr Gly Lys Pro Asn Lys Arg Lys Gly Phe Asn Glu Gly  
 65 70 75 80  
 Leu Trp Glu Ile Gln Asn Asn Pro His Ala Ser Tyr Ser Ala Pro Pro  
 85 90 95  
 Pro Val Ser Ser Ser Asp Ser Glu Ala Pro Glu Ala Asn Pro Ala Asp  
 100 105 110  
 Gly Ser Asp Ala Asp Glu Asp Asp Glu Asp Arg Gly Val Met Ala Val  
 115 120 125  
 Thr Ala Val Thr Ala Thr Ala Ala Ser Asp Arg Met Glu Ser Asp Ser  
 130 135 140  
 Asp Ser Asp Lys Ser Ser Asp Asn Ser Gly Leu Lys Arg Lys Thr Pro  
 145 150 155 160

Ala	Leu	Lys	Met	Ser	Val	Ser	Lys	Arg	Ala	Arg	Lys	Ala	Ser	Ser	Asp
				165					170					175	
Leu	Asp	Gln	Ala	Ser	Val	Ser	Pro	Ser	Glu	Glu	Glu	Asn	Ser	Glu	Ser
			180					185					190		
Ser	Ser	Glu	Ser	Glu	Lys	Thr	Ser	Asp	Gln	Asp	Phe	Thr	Pro	Glu	Lys
		195					200					205			
Lys	Ala	Ala	Val	Arg	Ala	Pro	Arg	Arg	Gly	Pro	Leu	Gly	Gly	Arg	Lys
	210					215					220				
Lys	Lys	Lys	Ala	Pro	Ser	Ala	Ser	Asp	Ser	Asp	Ser	Lys	Ala	Asp	Ser
225					230					235					240
Asp	Gly	Ala	Lys	Pro	Glu	Pro	Val	Ala	Met	Ala	Arg	Ser	Ala	Ser	Ser
				245					250					255	
Ser	Ser	Ser	Ser	Ser	Ser	Ser	Ser	Asp	Ser	Asp	Val	Ser	Val	Lys	Lys
			260					265					270		
Pro	Pro	Arg	Gly	Arg	Lys	Pro	Thr	Glu	Lys	Pro	Leu	Pro	Lys	Pro	Arg
		275					280					285			
Gly	Arg	Lys	Pro	Lys	Pro	Glu	Arg	Pro	Pro	Ser	Ser	Ser	Ser	Ser	Asp
	290					295					300				
Ser	Asp	Ser	Asp	Glu	Val	Asp	Arg	Ile	Thr						
305					310										

<210> 2267  
 <211> 281  
 <212> PRT  
 <213> Homo sapiens

<400> 2267

Met	Gly	Ser	Arg	Gly	Gln	Gly	Leu	Leu	Leu	Ala	Tyr	Cys	Leu	Leu	Leu
1				5					10					15	
Ala	Phe	Ala	Ser	Gly	Leu	Val	Leu	Ser	Arg	Val	Pro	His	Val	Gln	Gly
			20					25					30		
Glu	Gln	Gln	Glu	Trp	Glu	Gly	Thr	Glu	Glu	Leu	Pro	Ser	Pro	Pro	Asp
		35				40						45			
His	Ala	Glu	Arg	Ala	Glu	Glu	Gln	His	Glu	Lys	Tyr	Arg	Pro	Ser	Gln
	50					55					60				
Asp	Gln	Gly	Leu	Pro	Ala	Ser	Arg	Cys	Leu	Arg	Cys	Cys	Asp	Pro	Gly
65					70					75					80
Thr	Ser	Met	Tyr	Pro	Ala	Thr	Ala	Val	Pro	Gln	Ile	Asn	Ile	Thr	Ile
				85					90					95	
Leu	Lys	Gly	Glu	Lys	Gly	Asp	Arg	Gly	Asp	Arg	Gly	Leu	Gln	Gly	Lys

100						105						110					
Tyr	Gly	Lys	Thr	Gly	Ser	Ala	Gly	Ala	Arg	Gly	His	Thr	Gly	Pro	Lys		
115						120						125					
Gly	Gln	Lys	Gly	Ser	Met	Gly	Ala	Pro	Gly	Glu	Arg	Cys	Lys	Ser	His		
130						135						140					
Tyr	Ala	Ala	Phe	Ser	Val	Gly	Arg	Lys	Lys	Pro	Met	His	Ser	Asn	His		
145			150						155			160					
Tyr	Tyr	Gln	Thr	Val	Ile	Phe	Asp	Thr	Glu	Phe	Val	Asn	Leu	Tyr	Asp		
			165						170			175					
His	Phe	Asn	Met	Phe	Thr	Gly	Lys	Phe	Tyr	Cys	Tyr	Val	Pro	Gly	Leu		
			180						185			190					
Tyr	Phe	Phe	Ser	Leu	Asn	Val	His	Thr	Trp	Asn	Gln	Lys	Glu	Thr	Tyr		
195						200						205					
Leu	His	Ile	Met	Lys	Asn	Glu	Glu	Glu	Val	Ala	Ile	Leu	Phe	Ala	Gln		
210						215						220					
Val	Gly	Asp	Arg	Ser	Ile	Met	Gln	Ser	Gln	Ser	Leu	Met	Leu	Glu	Leu		
225			230						235			240					
Arg	Glu	Gln	Asp	Gln	Val	Trp	Val	Arg	Leu	Tyr	Lys	Gly	Glu	Arg	Glu		
			245						250			255					
Asn	Ala	Ile	Phe	Ser	Glu	Glu	Leu	Asp	Thr	Tyr	Ile	Thr	Phe	Ser	Gly		
			260						265			270					
Tyr	Leu	Val	Lys	His	Ala	Thr	Glu	Pro									
275						280											

<210> 2268  
 <211> 733  
 <212> DNA  
 <213> Homo sapiens

<400> 2268	gggatccgga gcccaaattct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg	60
	aattcgaggg tgcaccgtca gtcttcctct tcccccaaaa acccaaggac accctcatga	120
	tctcccggac tcctgaggtc acatgcgtgg tgggtggacgt aagccacgaa gaccctgagg	180
	tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg	240
	aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact	300
	ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca acccccatcg	360
	agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc	420
	catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctgggc aaaggcttct	480

atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagAAC aactacaaga	540
ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag ctcaccgtgg	600
acaagagcag gtggcagcag gggAACgtct tctcatgctc cgtgatgcat gaggctctgc	660
acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc	720
gactctagag gat	733

<210> 2269  
 <211> 5  
 <212> PRT  
 <213> Artificial sequence

<220>  
 <221> misc\_structure  
 <223> membrane proximal motif of class 1 cytokine receptors

<220>  
 <221> misc\_feature  
 <222> (3)  
 <223> Xaa equals any

<400> 2269  
 Trp Ser Xaa Trp Ser  
     1                    5

<210> 2270  
 <211> 86  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> primer\_bind  
 <223> forward primer useful for generation of a synthetic gamma activation site (GAS) containing promoter element

<400> 2270	
gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc	60
cccgaatat ctgccatctc aattag	86

<210> 2271  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> primer\_bind  
 <223> reverse primer useful for generation of a synthetic gamma activation site (GAS) containing promoter element

<400> 2271

gcggcaagct ttttgcaaag cctaggc

27

<210> 2272

<211> 271

<212> DNA

<213> Artificial Sequence

<220>

<221> misc\_feature

<223> Synthetic GAS-SV40 promoter sequence

<400> 2272

ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60

aaatatctgc catctcaatt agtcagcaac catagtccccg cccctaactc cgcccatccc 120

gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180

ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240

ttttggaggc ctaggctttt gcaaaaagct t 271

<210> 2273

<211> 32

<212> DNA

<213> Artificial sequence

<220>

<221> primer\_bind

<223> primer useful for generation of a EGR/SEAP reporter construct

<400> 2273

gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 2274

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<221> primer\_bind

<223> primer useful for generation of a EGR/SEAP reporter construct

<400> 2274

gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 2275

<211> 12

<212> DNA

<213> Artificial Sequence

<220>

<221> misc\_binding

<223> NF-KB binding site

<400> 2275



ggggactttc cc

12

<210> 2276

<211> 73

<212> DNA

<213> Artificial Sequence

<220>

<221> primer\_bind

<223> forward primer useful for generation of a vector containing the NF-KB promoter element

<400> 2276

gcggcctcga ggggactttc ccgggggactt tccggggact ttccgggact ttccatcctg 60

ccatctcaat tag

73

<210> 2277

<211> 256

<212> DNA

<213> Artificial Sequence

<220>

<221> misc\_feature

<223> Synthetic NF-KB/SV40 promoter

<400> 2277

ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct 60

caattagtca gcaaccatag tcccgccct aactccgcc atcccgcctc taactccgcc 120

cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180

ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240

cttttgcaaa aagctt 256

<210> 2278

<211> 1041

<212> DNA

<213> Homo sapiens

<400> 2278

tgcacccacg cgtccgcca cgcgtccgc cacgcgtccg ggccgaggac gtgcactatg 60

gctcggggct cgctgcgcc gttgctgcgg ctctcgtgc tggggctctg gctggcgctg 120

ctgcgctccg tggccgggga gcaagcgcca ggcaccgcc cctgctcccg cggcagctcc 180

tggagcgcg acctggacaa gtgcatggac tgcgcgtctt gcagggcgcg accgcacagc 240

gacttctgcc tgggctgcgc tgcagcacct cctgccccct tccggctgct ttggcccatc 300

cttgggggag ctctgagcct gaccttcgtg ctggggctgc tttctggctt tttggctctg 360

agacgatgcc gcagagagag aagttcacca ccccataga ggagaccggc ggagagggct 420

gccagctgt ggcgtgatc cagtgacaat gtgccccctg ccagccgggg ctgcccact 480  
 catcattcat tcatccattc tagagccagt ctctgcctcc cagacgcggc gggagcaagc 540  
 tcctccaacc acaagggggg tggggggcgg tgaatcacct cygaggcctg ggcccagggt 600  
 tcaggggaac ttccaaggtg tctgggtgcc ctgcctctgg ctccagaaca gaaagggagc 660  
 ctcacgctgg ctcacacaaa acagctgaca ctgactaagg aactgcagca tttgcacagg 720  
 ggaggggggt gccctccttc gtagaggccc tggggggccag gctgacttgg ggggcagact 780  
 tgacactagg cccactcac tcagatgtcc tgaaattcca ccacgggggt caccctgggg 840  
 ggtaggggac ctatttttaa cactaggggg ctggcccact aggagggctg gccctaagat 900  
 acagaccccc ccaactcccc aaagcgggga ggagatattt attttgggga gagtttggag 960  
 gggagggaga atttattaat aaaagaatct ttaactttaa aaaaaaaaaa aaaaaagggc 1020  
 ggccgctcta gaggatccct c 1041

<210> 2279  
 <211> 114  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (114)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2279  
 Met Ala Arg Gly Ser Leu Arg Arg Leu Leu Arg Leu Leu Val Leu Gly  
 1 5 10 15  
 Leu Trp Leu Ala Leu Leu Arg Ser Val Ala Gly Glu Gln Ala Pro Gly  
 20 25 30  
 Thr Ala Pro Cys Ser Arg Gly Ser Ser Trp Ser Ala Asp Leu Asp Lys  
 35 40 45  
 Cys Met Asp Cys Ala Ser Cys Arg Ala Arg Pro His Ser Asp Phe Cys  
 50 55 60  
 Leu Gly Cys Ala Ala Ala Pro Pro Ala Pro Phe Arg Leu Leu Trp Pro  
 65 70 75 80  
 Ile Leu Gly Gly Ala Leu Ser Leu Thr Phe Val Leu Gly Leu Leu Ser  
 85 90 95  
 Gly Phe Leu Val Trp Arg Arg Cys Arg Arg Glu Arg Ser Ser Pro Pro  
 100 105 110

Pro Xaa